MANUAL

MOBILE HOME

COSMOS







NOTE:

- **○** Our mobile homes are subject to continuous further development. We reserve the right to make changes to the equipment, design and engineering without notice. This manual is only valid in so far as the mobile home corresponds to the technology and specifications described within.
 - For this reason KNAUS TABBERT GROUP GMBH cannot accept any claims made on the basis of this manual.
- **⇒** *KNAUS TABBERT GROUP GMBH* accepts no liability for damage to the mobile home that results from the failure to observe this manual.
- **⊃** This manual represents the latest version of the mobile home when going to print.
- **○** Copying, reproduction, including extracts, are prohibited without the written approval of *KNAUS TABBERT GROUP GMBH*.

EXPLANATION ON THE EQUIPMENT:

The equipment (standard equipment and optional equipment or accessories) in our mobile homes varies from model to model.

For this reason the features of both the standard equipment and the features of the optional equipment are described in this manual as far as an explanation is necessary.

In addition, the manuals enclosed from the related manufacturers are also to be observed.

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Your local WEINSBERG Service Centre



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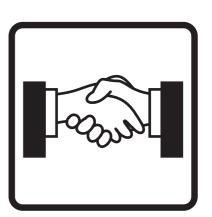


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Section 1



Foreword





1. Foreword

We wish you all the best for your **WEINSBERG** mobile home. Your »holiday home on wheels« has been designed and manufactured to give you the maximum possible enjoyment.

Please read through this manual carefully before using the vehicle to ensure you get the very best out of your mobile home. Take the time to be able to enjoy the excellent comfort and high technical standards of your **WEINSBERG** mobile home in a manner that is as relaxed as possible.

Please pay particular attention to the safety information.

In addition to this manual you should also familiarise yourself with the separate manual for the base vehicle and the appliances fitted.

If your **WEINSBERG** mobile home is fitted with optional accessories, observe the accompanying special permits and the related special instructions.

To request maintenance and repair work and if you have any special questions, please call your nearest **WEINSBERG** dealer. The staff at your authorised dealership will be happy to advise and assist you on all matters relating to your **WEINSBERG** product.

Only approved spare parts from the original manufacturer can ensure quality and a perfect fit.

We cannot fulfil our warranty obligations according to the terms of our warranty if maintenance work has been neglected or carried out incorrectly.

Please send your completed warranty card to KNAUS TABBERT GROUP GMBH to activate the warranty.

This manual is only valid in so far as the mobile home corresponds to the specifications described within.

The mobile l	home specific	ations are	particular	ly important
when making	g enquiries and	dordering	spare parts	S.

Therefore please make a note of the model, type, year	
of manufacture and the chassis number of your new WEINSBERG mobile home without delay.	

Model name:	
Type designation:	
Year of manufacture:	
Chassis number:	

You will find these details on the nameplate behind the driver's seat.

We wish you plenty of leisure time enjoyment with your new WEINSBERG mobile home.

The Management

Section 2



SAFETY INSTRUCTIONS



2. Safety Instructions



WARNING:

Please note in particular that we cannot accept any liability for damage and operating problems caused by ignoring this manual.

This section contains safety instructions that must be followed when operating the mobile home.

All safety regulations in this manual are specially marked with the following symbols:



WARNING:

This safety symbol appears when operating procedures must be observed in full to prevent endangering people.



CAUTION:

This safety symbol appears when operating procedures must be observed in full to prevent damage to property.



NOTE:

This safety symbol appears when the user must pay particular attention to technical requirements.

The **WARNING** and **CAUTION** symbols are printed in front of the text to which they refer. The **NOTE** symbol is printed after the text.



NOTE:

It is imperative that instructions marked in this way are observed!

SAFETY INSTRUCTIONS





2.1 Safety Devices

Particular attention should be paid to the safety devices fitted to your mobile home. These safety devices must be regularly checked to ensure that they are working correctly. The mobile home must not be operated if the safety devices are malfunctioning or not working.



SAFETY ALWAYS COMES FIRST!



2.2 Safety Instructions for Road Travel

- The mobile home must be officially registered.
- The mobile home is designed for a maximum speed of 120 km/h. A maximum speed of 130 km/h is shown in the vehicle registration document.

In Germany the admissible top speed for mobile homes is:

Urban areas: 50 km/h 3.5 tonnes total weight to 50 km/h over 3.5 tonnes total weight Outside urban areas: 3.5 tonnes total weight 100 km/h to over 3.5 tonnes total weight 80 km/h On motorways: tonnes total weight no speed limit to 3.5 over 3.5 tonnes total weight 80 km/h. . . .

- It is basically permitted to carry persons in the living area of the mobile home during the journey in accordance with German traffic regulations. However, these persons are only allowed to occupy the seats designated for this purpose (see section 3.1.1 »Seating Layout«, *page 3-2*). Persons facing forward while the vehicle is in motion must wear the three-point seat belts provided. Persons facing the rear are not required to wear seat belts. The model 551 MQ is equipped with lap seat belts and head rests.
- Due to the vehicle height you need to be aware of the mobile home's vulnerability to side winds during the journey.
- Note the maximum technically permissible laden mass (see vehicle certificate, no. 15) and maximum technically permissible axle loads (no. 16).
- The mobile home payload is to be evenly distributed (see section 4.3ff »Payload«, page 4-2).
- During the journey all seats must be turned to face the direction of travel and locked in place.
- Prior to starting the journey, the sliding door on the mobile home is to be closed.

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- If accessories are fitted this will alter the dimensions, the total weight and the handling of the mobile home. Certain accessories may have to be entered in the vehicle documents to comply with regulations.
- Before starting a journey always check that the toilet, bath and cupboard doors, drawers and all flaps, windows and roof lights are closed and that the refrigerator door latch is secure.
- When parking the mobile home, pull the parking brake on as far as it will go.
- Use wheel chocks if parking on a slope.
- In winter clear the roof of ice and snow before driving off.
- Never use snow chains on mobile homes fitted with aluminium wheels.
- If the vehicle is transported (e.g. by train, lorry), the vehicle must be loaded in the direction of travel!

2.3 General Safety Instructions

- Always ensure there is adequate ventilation when residing in the mobile home. Forced air vents in the roof lights must never be obstructed (e.g. by winter mats) or sealed because of the risk of suffocation from increased CO (carbon monoxide) levels in the air.
- You must read the individual manuals for all installed systems (e.g. gas heater, gas cooker, refrigerator etc.) and the base vehicle (engine, brakes etc.).
- IF Note the headroom of the sliding door and the heights of the driver and passenger doors.
- Close all doors and windows when leaving the vehicle.
- Collect all operating fluids (e.g. lubricants, spent oil and detergents) in suitable containers and dispose of correctly.
- Take care not to damage the outer skin of the mobile home!
- It is imperative to avoid walking on the roof of the mobile home!



2.3.1 Fitting Rear Carrier Systems



CAUTION:

After fitting rear carrier systems always note the following:

- that the load is attached and secured to the rear carrier according to instructions!
- representation the the admissible payload capacity of the rear carrier is not exceeded!
- that the axle load distribution and the total weight of the mobile home will be altered!
- representation that the handling and braking of the mobile home will be altered!



NOTE:

In Germany removable rear carrier systems need not be entered in the vehicle documents!

Only have rear carrier systems fitted by authorised workshops for safety reasons! Your nearest WEINSBERG dealer will be glad to inform you about this.

2.4 Safety Instructions for the Gas System



NOTE:

The overall gas system is designed for an operating pressure of 30 millibar [mbar]!

- Any installations or modifications to the gas system must be carried out by qualified specialists!
 - The LPG (liquefied petroleum gas) system is inspected by an engineer before it leaves the factory. The gas system must be re-inspected every 2 years and following any modifications and repairs.
 - The regulators and flue pipes must also be checked regularly! Inspections must be recorded on the test certificate according to DVGW Worksheet G 607.
- © Observe relevant national legislation outside Germany!
- The operator is solely responsible for ensuring the checks are carried out!
- Gas bottles must be kept in the gas locker where they must be held upright and secured to prevent them from spinning round!



- The gas locker must be hermetically sealed from the interior of the mobile home and there must be a ventilation opening at or immediately above the floor of at least 100 cm². This must never be covered!
- Only use pressure regulators with a safety valve!

 Other regulators are not permitted!

 Connect the pressure regulator to the gas bottle carefully by hand (do not use spanners, pliers or similar!)

 Use a de-icing system for the pressure regulator for temperatures below 5 °C (e.g. Eis-Ex).



WARNING:

Failure to observe these instructions will result in a potentially lethal situation due to lack of oxygen and the possible production of odourless and poisonous carbon monoxide (CO)!



- When using the gas cooker you must open a roof light, a window or the entry door!

 The mobile home must never be heated with radiant heaters and other appliances that take their combustion air from the interior of the vehicle!
- When switching on gas appliances which are ignited by pressing a button, this must automatically return to its original position after pressing!
- Prover seal the forced air vents in the roof light!
- The flue pipe from the gas heater must be rising along its entire length and be fastened securely in place with clips and gas flue pipe supports if necessary! The flue pipe must be properly connected and sealed to the gas heater and to the flue, and must not be damaged in any way. Flue pipes from heaters must be made of stainless steel.
- Before starting up the heater remove any dirt and snow from the flue and the combustion air inlets to prevent carbon monoxide (CO) in the exhaust gas increasing to an inadmissible level!
- Appliances which operate with gas must not be used while refuelling or in a garage!
- Operate the gas system only with propane, butane or a mix of the two gas types! Propane can gasify down to -32 °C, butane only down to 0 °C.
- The gas bottle stop valve must be closed while travelling if no appliances are in use!
- Always close the appliance gas tap when you have finished using a gas appliance!
- If the mobile home is not to be used for a long period, close the gas bottle stop valve on the gas bottle!
- Do not store electrical devices (e.g. batteries) and/or devices which form a source of ignition in the gas locker!
- Electrical leads may only be fed through the gas locker if insulated. Do not fasten with clips!





WARNING:

If you suspect a gas leak, proceed immediately as follows:

- Close gas bottle stop valve!
- Avoid ignition sources of any sort incl. naked flames or smoking!
- Provide ventilation through the room!
- **☞** Clear the danger area!
- Inform the campsite superintendent and the fire service if necessary!







NOTE:

The gas system must be started again by a gas engineer after being checked.

2.5 Fire Safety

2.5.1 Prevention of Fire Hazards

- All repairs and modifications to the electrical or LPG systems and equipment must be carried out by trained personnel!
- Prover leave children unattended in the mobile home!
- F Keep flammable materials away from heating and cooking appliances!

2.5.2 Fire Fighting

- You must always carry a 1-kg dry powder fire extinguisher in the mobile home! This extinguisher must be approved, tested and kept within easy reach!
- The fire extinguisher must be checked regularly by approved trained personnel (make a note of the inspection date)!



2.5.3 In Case of Fire

- Evacuate all vehicle occupants!
- Switch off the electrical power supply and disconnect from the mains!
- Immediately close gas bottle stop valve!
- Sound the alarm and call the fire service!
- Try to put out the fire if this is possible without risk!
- Be aware of the location and use of emergency exits!
- F Keep emergency exits clear!
- Follow the instructions for use of the fire extinguisher!

2.6 Important Notes for the Sanitary Area



CAUTION:

- The wet cubicle is only allowed to be used for showering in conjunction with a shower curtain or a shower door!
- The toilet cubicle is only allowed to the cleaned with a damp cloth!

2.7 Environmental Notes

- Collect all operating fluids (e.g. lubricants, spent oil and detergents) in suitable containers and dispose of correctly!
- Pever dispose of wastewater of any kind or domestic refuse in the gutter or in the countryside.
- Always empty the wastewater tank and the Thetford unit at disposal facilities on the campsite or at specially designated disposal facilities. Observe town and district regulations and ask about disposal facilities.
- Use an environmentally friendly and biologically degradable WC chemical in small doses.
- 🖙 Separate domestic refuse into glass, metal tins, plastic and wet refuse.

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- Prever dispose of domestic refuse in waste bins in car parks. Ask about disposal facilities in towns and districts.
- If residing for a long period in a town or district, look for a specially designated parking place for mobile homes. Ask about parking facilities in towns or districts.
- Turn off the vehicle engine when parked. The engine operating temperature is reached most effectively by driving fast.

2.8 Supplementary Notes

Read the following brochures from the ADAC which form supplementary information to this handbook:

- »Freies Campen und Übernachten in Europa«
- a »Verkehrsbestimmungen für Gespanne und Wohnmobile in Europa«
- 3 »Besondere Verkehrsbestimmungen für Campingfahrzeuge in Deutschland«

Section 3



DESCRIPTION





3. Description

3.1 General Construction and Equipment of the Mobile Home

- The **WEINSBERG** mobile home is based on the FIAT DUCATO Transporter. You can find further information about the base vehicle in the separate FIAT manual.
- The high quality furnishings are manufactured entirely from upholstered plywood. A very special technique is used to bend curved furniture. Furniture sections are made with multiple-bonded, upholstered plywood. This type of finish ensures that furniture surfaces are simple and easy to keep clean.
 - Certain items of furniture are also made using a combination of plywood and solid wood.
- Particular attention is also paid to the securing of the furniture in all WEINSBERG mobile homes. To enable the absorption
 of correspondingly large forces, multi-laminated plywood strips are fastened to the sidewalls at certain places. Because
 these attachment points are incorporated during actual manufacture of the sidewalls they ensure a high level of strength.
- All cupboard and locker doors are fitted with high-quality locks to prevent unwanted opening.

 All door fittings used in the mobile home have been chosen with great care. Here again, only the very best quality is used.
- The interior of the mobile home features depending on the model a permanently installed rear bed and one or more seat modules which can be easily converted into sleeping berths. Spacious storage lockers are provided around the interior of the vehicle above the rear bed, the seating modules and the kitchen range. There are no storage lockers above the alcove bed.
- The kitchen range is fitted with a cooker, a sink and a refrigerator. The kitchen range also provides comprehensive surfaces and storage facilities.
- There is lighting above the kitchen range in the model 551 MQ.
- The mobile home is fitted as standard with a high-powered heater and a hot air blower and a hot water supply. Each mobile home also has an integral wet cubicle (toilet, bath and washroom).
- A fresh water tank and wastewater tank is fitted on all Cosmos models; these are also insulated from below with an insulating shell. Using a dedicated flow of hot air from the heating, these are frost-proof even at very low outside temperatures.

DESCRIPTION



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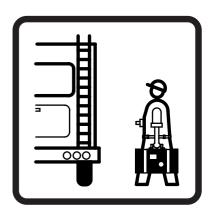
3.1.1 Seating Layout

All forward facing seats which are approved for use by persons during the journey are provided with 3-point seat belts and head restraints.

All the seats facing away from the direction of travel, which are permitted for carrying passengers during a journey, are fitted with lap seat belts and head rests.

The seating layout of the different models are shown in the floor plans in section »19. Specifications« from page 21-11.

Section 4



BEFORE THE JOURNEY



- 4. Before the Journey
- 4.1 Before the First Journey



WARNING:

Read all safety instructions carefully before using the mobile home!



CAUTION:

- The first time you use the vehicle, check that the wheel nuts are still tight after approx. 50 km and if necessary retighten to a tightening torque of around 150 Nm!
- F After that, check wheel nuts for tightness at regular intervals!

4.2 Registering the Mobile Home



NOTE:

Never drive the vehicle without a number plate or insurance cover!

Mobile homes are vehicles in the sense of German traffic regulations. Mobile homes must be officially registered before they are driven on public roads.

Nationality identification is required if travelling abroad » 🔘 « . This symbol must be fitted above the right-hand rear lamp.

Mobile homes may not be operated without valid insurance.

Contact your nearest WEINSBERG dealer about the individual formalities required.



4.3 Payload



CAUTION:

- Do not allow payloads to cause the vehicle to exceed the maximum technically permissible laden mass as entered in the vehicle documents!
- Do not allow payloads to cause the vehicle to exceed the maximum technically permissible laden mass or the maximum technically permissible axle loads!
- There is a danger of tyres puncturing if the maximum technically permissible laden mass is exceeded and the tyre pressure is too low. The mobile home could veer out of control!
- Installing accessories, optional extras and carrying tank contents and gas bottles and personal equipment reduce the admissible extra payload!

In order not to detrimentally affect the handling of your mobile home, take care when loading that the centre of gravity of the payload is directly above the vehicle floor or as close to the vehicle floor as possible.



NOTE:

The vehicle document gives only the maximum technically permissible laden mass, not the inherent mass of the mobile home. We therefore recommend that you have the vehicle weighed on a public weighbridge before commencing your journey.

4.3.1 Loading the Mobile Home

- Ensure that the payload is distributed evenly between the left and right-hand sides of the vehicle.
- Secure heavy items (e.g. crockery, cutlery, jars etc.) on the floor or on low storage surfaces whose doors do not open in the direction of travel, and ensure they cannot slide about!
- Place lighter objects (e.g. clothes etc.) in the upper storage areas!
- The cycle rack EuroCarry GHT (optional accessory) is only allowed to be loaded with bicycles. The maximum load on the cycle carrier is 50 kg.
- It is imperative to avoid walking on the roof of the mobile home!
- The roof bars (optional accessory) may be used to carry only roof loads, e.g. surfboard, rubber dinghies or light canoes!

BEFORE THE JOURNEY

WEINSBERS



- Always note the increased total height of the mobile home when the roof bars are loaded!
- Roof loads must be tied down securely, do not use bungees!
- When calculating the payload, the sections from page 21-7 are to be observed!

4.4 Checking the Mobile Home Before Starting the Journey

We suggest that you check your mobile home against the following checklist before you set off:

Comments:	Date:			
1:	Do you have all vehicle papers – including the green card – onboard, and do all passengers have their travel documents (passport, identity card, child's identity card, etc.)? Check validity of travel documents in good time!			
2:	Do you have all necessary documents (heath related documentation and vaccination certificate) for any pets carried? Information on the necessary documents can be obtained from the related consulate, from the tourist office or from an automobile club.			
3:	Is the gas test certificate still valid (see gas test sticker)? Check validity in good time!			
4:	Do you have a complete set of spare keys (store separately!) for the mobile home and any alarm?			
5:	Have all the necessary servicing work and inspections been performed on the mobile home at the correct intervals?			
6:	Are you sure that the maximum technically permissible laden mass has not been exceeded (see Specifications, page 21-10 and 21-12)?			
7:	Has your mobile home been correctly loaded (see section 4.3, <i>page 4-2</i>)?			
8:	Are all doors, flaps, gas locker, windows, roof lights and REMI – except forced air vents – correctly closed?			
9:	Have the suspended light(s) been taken down and safely stowed?			
10:	Are all tables placed in the sleeping position (see <i>page 7-10</i> and <i>7-11</i>)?			
11:	Are you sure that all containers with liquids - including those in the refrigerator - cannot tip over?			
12:	Are the gas bottles securely fastened with fastening straps in the gas locker, are the gas bottle stop valve and all gas taps closed?			
13:	Is the payload securely fastened against sliding?			
14:	Have all the tyre pressures (including the spare tyre) on the mobile home been checked as per the Tyre Pressure Table, page 21-2?			
15:	Are first-aid kit (check for completeness!) and hazard warning triangle stowed where they are in easy reach?			
16:	Do you have a correctly pumped up spare wheel, the corresponding tools and a suitable vehicle jack for the maximum technically permissible laden mass in case you need to change a wheel?			
17:	Do all lights work on the mobile home (test!)?			

BEFORE THE JOURNEY



WEINSBERS



CAUTION:

After a few kilometres stop and check once again that the payload inside the mobile home is securely tied down and cannot slip.



NOTE:

At the end of this manual you will find a another copy of the checklist and, along with ticking off the individual check points, you can enter and tick off important personal check points. We suggest that you make copies of these pages so you will always have a blank checklist ready to hand before you set out on a journey.

4.5 Brakes



WARNING:

Any defects in the brake system must be immediately repaired by an authorised garage.

Ensure that the mobile home's brake system is operating correctly before commencing any journey.

To do this, proceed as follows:

- ► Test the brakes while driving at moderate speed and ensure that...
 - r the vehicle's brake system is working,
 - If the wheels brake evenly,
 - ref the vehicle does not 'pull' to one side.



4.6 Tyre Pressure



WARNING:

When the mobile home is fully laden, tyres may burst if not inflated to the correct pressure. You may lose control of the vehicle as a result!

► Check tyre pressures before commencing your journey and adjust as necessary. Don't forget to check the pressure in the spare wheel as well.

Follow the instructions given in section 20.1 »Tyres« page 21-1.

The correct tyre pressure is given in the »Tyre Pressure Table« in section 21.1.2, page 21-2.

4.7 Adjusting the Vehicle Seats



WARNING:

The vehicle seats are only to be adjusted when the vehicle is stationary!



CAUTION:

When putting on the seat belt it is to be ensured that the seat belt passes inside the armrest!



WARNING:

Before starting the journey, ensure that both vehicle seats are pointing in the direction of travel and that the rotary unit is correctly locked!

BEFORE THE JOURNEY



WEINSBERS

4.7.1 Base Vehicle Seats

Please see the separate manual from the manufacturer for information on the adjustment of the vehicle seats integrated in the base vehicle.

4.7.2 »Aguti MILAN« Vehicle Seat

4.7.2.1 Forward-Back Adjustment

➤ To adjust the vehicle seat forward-backward, pull up the unlocking lever (1) and at the same time move the seat to the required position.

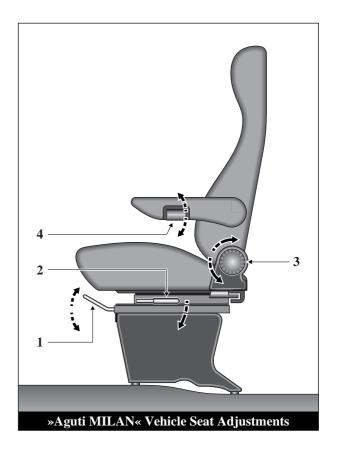
The seat rail automatically locks in the required position when the unlocking lever is released.

4.7.2.2 Rotary Unit



WARNING:

Before starting the journey, ensure that both vehicle seats are pointing in the direction of travel and that the rotary unit is correctly locked!



► To rotate the vehicle seat, push down the unlocking lever (2) and at the same time rotate the seat to the required position. The seat locks automatically when rotated back to the direction of travel.

4.7.2.3 Backrest Adjustment

▶ To adjust the backrest tilt, turn the handwheel (3) to the front or the back to adjust the backrest to the front or the back.

4.7.2.4 Armrest Adjustment

► To swivel up the armrest, simply fold up the armrest with light pressure.

BEFORE THE JOURNEY

WEINSBERS



▶ For fine adjustment of the height of the armrest, turn the rotary knob upward (item 4, *page 4-6*) if the adjustment is to be corrected upward, or similarly turn downward if the adjustment is to be corrected downward. To make the handwheel easier to move, the armrest should be lifted slightly.

4.8 Vehicle Lights

Before commencing any journey it is advisable to check all lights on the inside and outside of the vehicle to ensure that they work properly; replace any bulbs that are defective. You should familiarise yourself with the procedure for changing the various bulbs before commencing your journey.

We also recommend that you carry a complete set of spare bulbs so that defective bulbs can be immediately replaced 'on site' if necessary.

4.9 Obtaining a Replacement Key

Should you ever need to obtain replacement keys for your mobile home then you should have the following information available:

Keys for:	Information required:	Obtainable from:
FIAT base vehicle	Code no. or code card, second key or chassis number	FIAT Dealer
WEINSBERG Body	Serial no., chassis number, second key or key number	WEINSBERG Service Centre

Section 5



DURING THE JOURNEY



5. During the Journey

5.1 Driving the Mobile Home



WARNING:

- It is basically permitted to carry persons in the living area of the mobile home during the journey in accordance with German traffic regulations. However these persons may only use the seats designated for this purpose.
- Persons sitting in the living area of the mobile home and facing forward, and the driver and front passenger, must wear their 3-point seat belts during the journey!
- Persons sitting in the living area and facing the rear are not required to wear their seat belts but they are strongly advised to do so!
- The mobile home is designed for a maximum speed of 120 km/h. A maximum speed of 130 km/h is shown in the vehicle registration document. You will find information on the admissible top speeds for mobile homes in Germany on *page* 2-2 in this manual.

Always drive attentively and with consideration for other road users. The basic mobile home vehicle is classed as a commercial vehicle (small truck). You should therefore drive the mobile home in the same way as you would a light commercial vehicle.



CAUTION:

When driving into courtyards, tunnels etc. as well as when manoeuvring, it is important that you correctly judge the height, width and length of the mobile home! You will find information on the dimensions of the mobile home on *pages 21-10* and *21-12*.

Follow these useful hints when driving your mobile home:

- Prover drive faster downhill than you would uphill.
- You may experience a 'pull' on the mobile home due to air turbulence when overtaking long vehicles. You can counteract this effect by gently steering in the opposite direction.
- Due to the vehicle height you need to be aware of the mobile home's vulnerability to side winds during the journey.
- Do not underestimate the length of your mobile home.
- Remember to change gear in good time.

DURING THE JOURNEY



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Avoid sudden steering movements. Should the vehicle ever start to skid, take your foot off the brake pedal and gently steer it back into the correct direction of travel.



NOTE:

Never attempt to regain control of your vehicle by sudden braking - it is easier to manoeuvre the vehicle without its brakes on!

5.2 Refuelling the Mobile Home



CAUTION:

Your mobile home runs on diesel fuel only!



WARNING:

- When refuelling, make sure that all gas-fired appliances in the living area of the mobile home are turned off!
- Fire, naked flame and smoking are strictly forbidden! Explosion hazard!
- ☐ You should also observe any local regulations governing the use of pumps at filling stations.





You will find further information about refuelling the mobile home in the separate FIAT manual.



5.3 Changing a Wheel

The spare wheel is located under the mobile home behind the rear axle. You will find the toolkit and jack beneath the front passenger seat.

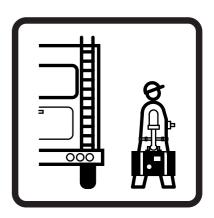


WARNING:

- **EFYOU should only change a wheel on firm, level ground and well away from moving traffic.**
- Other road users must be made aware of your vehicle according to the national regulations which apply in the country you are visiting, e.g. by using the hazard warning triangle.
- F Never lie under the mobile home when it is jacked up!
- The jack is provided for wheel changing only. It must never be used for carrying out work under the mobile home.

You will find further information about wheel changing in the separate FIAT manual.

Section 6



AFTER THE JOURNEY



6. After the Journey

6.1 Parking Brake

When parking the mobile home, apply the parking brake (handbrake) by pulling the lever to its final position (especially on inclines).

6.2 Setting Up the Mobile Home

- 1. Apply the parking brake as far as it will go.
- 2. Level the mobile home front-to-back using a spirit level. Adjust by blocking up the wheels.
- 3. Use the spirit level to check that the mobile home is also level side-to-side. Adjust by blocking up the wheels.

6.3 Awning

The following points should be remembered when using the awning:

- Do not place the awning on the weather side.
- Do not over-tension the awning cover (tent fabric) it should just be 'straight'.
- Do not touch the awning cover in rain.
- Do not retract the awning unless it is thoroughly dry to avoid possible mould and staining (see sections 18.5, page 18-5)
- F Keep oil and grease away from the tent fabric.
- Avoid water collecting on the awning.
- Prover wash the mobile home with the awning extended.
- If you do not intend to use the awning for some time, it should be thoroughly cleaned (see sections 18.5, *page 18-5*) and the mechanical parts lightly greased.

AFTER THE JOURNEY



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To extend and retract the awning, proceed as follows:



CAUTION:

Support the awning on its integral awning support legs after extending to about 1 metre. \\

- 1. Set the awning handle to the required length and fit into the awning mechanism.
- **2.** Extend the awning by about 1 metre by turning the handle anticlockwise.
- 3. Open out both awning support legs and adjust to the correct length.
- 4. Now extend the awning fully while moving the support legs so that they are always at the correct angle to the ground.
- **5.** Reverse the process to retract the awning.

Section 7



LIVING

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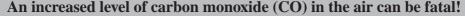
7. Living

7.1 Ventilating the Mobile Home



WARNING:

The integrated safety ventilation openings (forced ventilation in the roof lights, mushroom vents) must not be obstructed under any circumstances!





Providing adequate and correct ventilation for your mobile home is the best way of ensuring optimum conditions of living comfort.

Your mobile home features draught-excluding safety ventilation openings (forced ventilation in the roof lights, 'mushroom' vents) which should not be obstructed under any circumstances.

Cooking and wet clothing releases water vapour. Every person releases up to 35 grams of water into the atmosphere each hour just by breathing. This is why your mobile home must be ventilated with the windows and roof lights depending on the level of humidity.

You will find more hints in section 16 »Winter Camping « page 16-1.



NOTE:

Condensation can form under the upholstery during the night. Cushions (expanded foam) should be placed upright and aired to remove any moisture.

Condensation may also form inside the acrylic glass double-glazing units in extreme weather conditions. This process is quite normal and can be explained as follows:

Acrylic glass - the material from which the windows are made - is an organic material and therefore porous, i.e. moisture and/ or gases can pass through it.

With a double acrylic glass panel, extreme weather can change the air conditions in the gap between the two sheets of glass with the result that different conditions bring about a state of equilibrium.

Put simply, this means that the air between the two panes tries to match the conditions of the atmosphere surrounding it. If the surrounding atmosphere is continually humid then the space between the two panes of glass also tends to become more humid.

This process can be reversed - in dry conditions the air in the gap also tends to become drier.



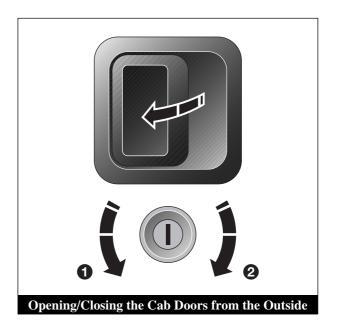


Warm air can store a lot more moisture than cold air. This explains the sudden appearance of condensation - as the air temperature falls the moisture can no longer be held in suspension, i.e. solid particles like water which float in the air, and so it precipitates out. The water now settles on the surface with the lowest temperature, which in this case is the inside surface of the outer pane of acrylic glass.

As the temperature rises again the condensation evaporates and the glass demists.

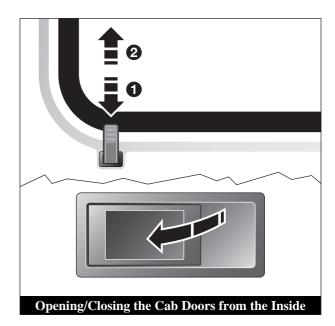
7.2 Opening and Closing the Cab Doors from the Outside

- 1. To open the door insert the key in the door lock and turn to position 2, the door lock is unlocked.
- 2. Withdraw key.
- 3. Turn door handle in the direction of the arrow.
- **4.** To close the door insert the key in the door lock and turn to position **1**, the door lock is locked.
- 5. Withdraw key.



7.3 Opening and Closing the Cab Doors from the Inside

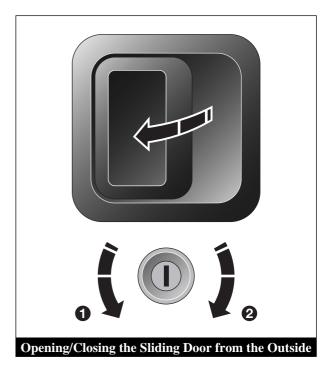
- To open the door first pull the door lock button out to position
 pull the door handle (detail below) in the direction of the arrow and open door.
- 2. To close the door, pull firmly.
- **3.** To lock the door press the door lock button to position **1**.
- **4.** To unlock the door pull out the door lock button to position **2**.





7.4 Opening and Closing the Sliding Door from the Outside

- 1. To open the door insert the key in the door lock and turn to position 2, the door lock is unlocked.
- 2. Withdraw key.
- **3.** Turn door handle in the direction of the arrow.
- **4.** To close the door insert the key in the door lock and turn to position **1**, the door lock is locked.
- 5. Withdraw key.



7.5 Opening and Closing the Sliding Door from the Inside

- 1. To open the sliding door first pull the door lock button to position 2, pull the door handle in the direction of the arrow and open sliding door.
- **2.** To close the sliding door, slide firmly.
- **3.** To lock the sliding door press the door lock button to position **1**.
- **4.** To unlock the sliding door pull out the door lock button to position **2**.







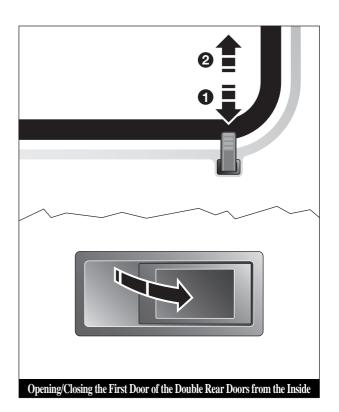
7.6 Opening and Closing the First Door of the Double Rear Doors from the Outside

- 1. To open the rear door insert the key in the door lock and turn to position 2, the door lock is unlocked.
- 2. Withdraw key.
- 3. Turn door handle in the direction of the arrow.
- **4.** To close the rear door insert the key in the door lock and turn to position **1**, the door lock is locked.
- 5. Withdraw key.



7.7 Opening and Closing the First Door of the Double Rear Doors from the Inside

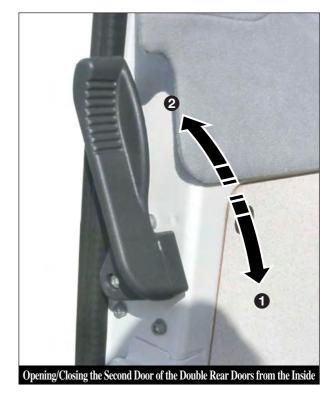
- 1. To open the rear door first pull the door lock button out to position 2, pull the door handle (detail below) in the direction of the arrow and open door.
- 2. To close the rear door, pull firmly.
- **3.** To lock the door press the door lock button to position **1**.
- **4.** To unlock the door pull out the door lock button to position **2**.





7.8 Opening and Closing the Second Door of the Double Rear Doors from the Inside

- 1. To open the second door of the rear doors, turn the handle to position 2.
- **2.** To close the second door of the rear doors, turn the handle to position **1**.



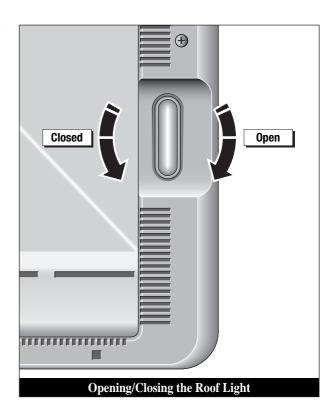
7.9 Opening and Closing the Roof Light

The roof light can be opened on one side.

1. To open the roof light, turn the knob clockwise (»**Open**« position).

To open the roof light fully, the knob must be turned several turns.

2. To close the roof light, turn the knob anticlockwise (»**Close**« position).

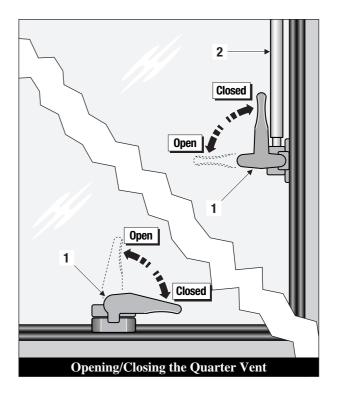




7.10 Opening/Closing the Quarter Vent

The quarter vents on the mobile home are fitted with an automatic catch mechanism, i.e. the quarter vent automatically engages in the desired position when opened.

- 1. To open the quarter vent, turn the locking lever (1) to the »Open« position.
- 2. Open the window to the desired position; the telescopic strut (2) engages automatically.
- **3.** To close the quarter vent, open the vent a little more until the lock is released and then close the quarter vent.
- 4. Turn locking lever (1) to »Closed« position.



7.11 REMItop II Roof Window (optional equipment)



CAUTION:

- $\ \ \, \Box$ Do not open roof window in heavy wind, rain, hail, etc. or when the outdoor temperature is below -20 °C!
- Close and lock roof window before starting your journey! Open cover and mosquito blind (normal position)!
- Do not tread on the glass dome (acrylic glass)!
- The glass dome should be closed fully and the blackout blinds opened before commencing your journey and when laying up the mobile home for lengthy periods of time!
- © Contact your local Service Centre if the roof window develops any problems!
- Any snow, ice and other obstructions must be removed before opening the glass dome.
- Prior to opening the glass dome under trees, in garages or similar, ensure there is enough clearance!

Hints on the cleaning and care of the roof window are given in section 18.4 page 18-5.





The roof window is available as an optional extra. It makes the interior of the mobile home lighter, provides improved ventilation and gives the living area a pleasant sense of space.

There is a cover on the inside of the roof window to act as a curtain and a mosquito blind. The cover and mosquito blind can be used separately or together.

The bad weather position enables the glass dome to be opened approx. 15 mm in the rain so that no water can enter the interior, and the wind cannot open the glass dome.

7.11.1 Opening and Closing the Glass Dome



CAUTION:

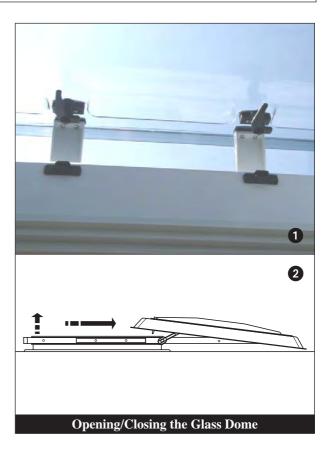
Prior to opening the glass dome, the opening area must be cleared!

To open the glass dome, proceed as follows:

- **1.** Unlock both rotary locks by pressing the button and at the same time rotating by 90 degrees.
- 2. Push glass dome fully upward at the rotary locks with both hands until the legs engage 1.Push glass dome to the required position 2.

To close/lock the glass dome, proceed as follows:

- 1. Close glass dome by pushing the rotary locks with both hands. Then pull both rotary locks evenly down until the glass dome is closed.
- **2.** Lock both rotary locks by pressing the button and at the same time rotating by 90 degrees.







7.11.2 Opening and Closing the Glass Dome, Bad Weather Position



CAUTION:

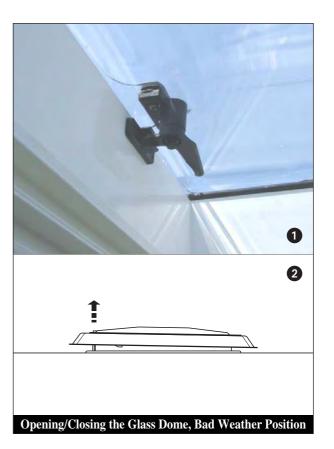
Prior to opening the glass dome, the opening area must be cleared!

To open the glass dome to the bad weather position, proceed as follows:

- 1. Unlock both rotary locks by pressing the button and at the same time rotating to the middle cut-out on the bracket bolted to the frame 1.
- 2. Glass dome is then opened by approx. 15 mm. In this way it is not possible for the rain to enter and the wind cannot open the glass dome 2.

To close the glass dome, proceed as follows:

- **1.** Unlock both rotary locks and pull down evenly until the glass dome is closed.
- **2.** Lock both rotary locks by pressing the button and at the same time rotating by 90 degrees.

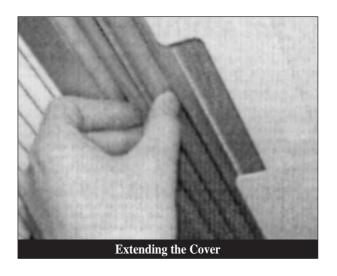


7.11.3 Extending the Cover

The roof window has an integrated cover.

To close the cover as a curtain proceed as follows:

1. Move cover to the required position using the handle or push against the mosquito blind handle.





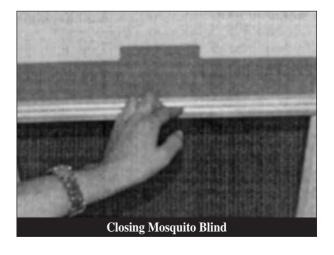
7.11.4 Opening and Closing the Mosquito Blind

The roof window has an integrated mosquito blind.

To close the mosquito blind, proceed as follows:

1. Push mosquito blind against the handle for the cover until the two handles engage 1.

To open the mosquito blind, proceed as follows:

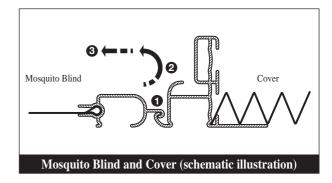




CAUTION:

Do not allow the mosquito blind to rewind quickly on its own, as it may be damaged!

1. Tilt handle on the mosquito blind 2 and move back 3.





7.12 Sleeping

7.12.1 Preparing for Sleeping

The rear bed in model 551 MQ is ready for use immediately. The seating modules can also be converted to beds in just a few simple operations.



WARNING:

- on the model 551 K it is necessary to lower the height-adjustable table and secure it with the wing bolt before starting your journey!
- On the model 551 MQ the hookin table must be removed and securely stowed in the cupboard under the rear bed before starting your journey!

The related warning label in the visible area of the side window near the seat module is always to be observed!



Warning

7.12.1.1 Converting the Seating Module with Height-Adjustable Table to a Bed (Model 551 K)

To move the height-adjustable table to the sleeping position, proceed as follows:

- Release the table by moving the handle in the direction shown by the arrow, and lower the table as far as it will go. The table feet will move like a parallelogram.
- **2.** Pull the side seat cushions into the centre. Place the back cushions into the spaces.

When raised, the table will automatically engage in its initial position.

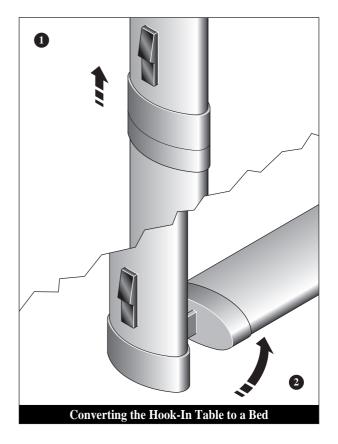




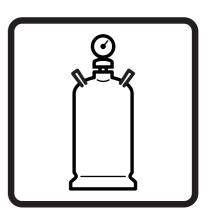
7.12.1.2 Converting the Seating Module with Hook-In Table to a Bed (Model 551 MQ)

To move the hook-in table to the sleeping position, proceed as follows:

- **1.** Unhook the hook-in table from the top guide rail and hook it into the lower guide rail.
- 2. Lift the table slightly, push the safety catch (Detail 1) up and swivel the lower section of the table leg until it catches (Detail 2).
- 3. Release the safety catch.
- **4.** Pull the side seat cushions into the centre. Place the back cushions into the spaces.
- **5.** Reverse the process to convert back to the seating module.



SECTION 8



GAS SUPPLY



8. Gas Supply

8.1 General Notes on the Gas Supply



NOTE:

The overall gas system is designed for an operating pressure of 30 millibar [mbar]!



WARNING:

- Repairs and modifications to the gas system may only be carried out by the authorised service centre!
- It is essential to follow the safety instructions and safety information when using the gas system or gas appliances!
- Altering the gas system or appliances yourself is prohibited and dangerous!
- The customer may only connect the pressure regulator to the gas bottle. All other work must be carried out by an authorised service centre.
- Never search for gas leaks with a cigarette lighter or other naked flames!







The entire gas system has been designed according to the applicable regulations governing LPG appliances and fires in mobile homes, and has been tested and certified by an engineer.

All fitted gas-fired appliances are ignition-protected, so if the flame goes out then the ignition safety system isolates the gas supply automatically Despite this safety device you should always turn off the appropriate gas tap when any of the appliances are not in use.

Should a fault ever occur, e.g. gas consumption is excessive or you smell gas, follow the safety information and have the fault repaired by a service centre.

Get the service centre to certify the repair or modification to the gas system in the gas test certificate (yellow test certificate) and always insist on a gas leak test being carried out.



NOTE:

The gas system should be checked every 2 years by a gas engineer. The caravan keeper is responsible for testing the gas system!

GAS SUPPLY



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8.2 LPG

The appliances can be operated with propane or butane or a mixture of these two LPG types. Retail stockists usually supply the gas in 5 kg or 11 kg refillable or returnable bottles. These bottles must be kept in the gas locker. The gas locker should be kept secure from unauthorised access at all times!



NOTE:

You should use pure propane for winter camping as butane will not gasify below freezing point.

8.3 Placing Gas Bottles in the Gas Locker



CAUTION:

The gas locker flap can be opened and shut by pressing lightly!

▶ Place the gas bottles upright in the gas locker and secure them firmly with the straps provided. Fit the pressure regulator to the gas bottle by hand (never use spanners, pliers etc.).

8.4 General Information on the Gas Consumption

The amount of gas you use will depend on how much you use the gas appliances:

- The Trumatic (heater and hot water boiler) consumes between 170 and 500 g/h depending on the weather and the interior temperature setting (heater) and amount of use (hot water boiler).
- The refrigerator consumes about 300 g/h.



8.5 Gas Taps

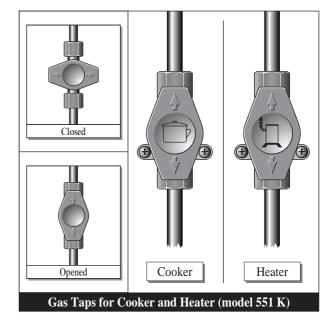
8.5.1 Gas Taps for Cooker and Heater

On model 551 K the gas tap for the cooker » \bigcirc « is underneath the kitchen range in the cupboard.

The gas tap for the heater » $\ \ \, \textcircled{\ \ \, }$ $\ \ \,$ w is on the left underneath in the bed module.

The illustration opposite shows both taps in the open position.

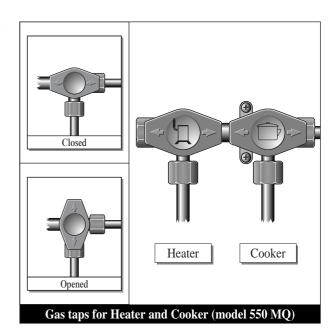
If one of the appliances is not in use it should be isolated from the gas supply with the appropriate tap.



On model 551 MQ the valve block with a gas tap for the cooker » \bigcirc « and a gas tap for the heater » \bigcirc « is on the bottom left in the cupboard under the bed.

The illustration opposite shows both taps in the closed position.

If one of the appliances is not in use it should be isolated from the gas supply with the appropriate tap.

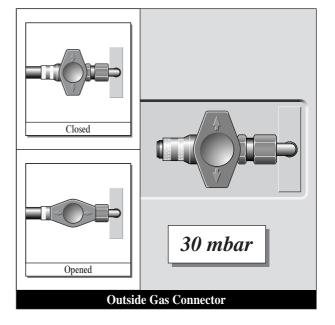




8.6 Outside Gas Connector

To connect a gas barbeque or similar, the mobile home can be equipped with an outside gas connector as an option. This is on the outside of the mobile home.

The illustration opposite shows the tap on the outside gas connector in the closed position.





WARNING:

No smoking or naked flame while connecting an external gas appliance!





CAUTION:

The tap for the gas supply can only be turned when an appliance is actually connected, otherwise the tap handle may be damaged!

- 1. To connect up a gas barbecue, fit the connecting piece into the outside gas connector (the release ring clicks home to engage) and then open the gas tap.
- 2. To disconnect the gas barbecue, first close the gas tap, push the release ring back and withdraw the connecting piece.

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8.7 Changing the Gas Bottle



WARNING:

- The customer may only connect the pressure regulator to the gas bottle. All other work must be carried out by an authorised service centre.
- Never use a lighted or other open source of light when changing the gas bottle!
- There is still some gas left even in an »empty« gas bottle. For this reason exercise extreme caution when changing the gas bottle!
- After changing the gas bottle, it is to be checked whether there are any leaks!







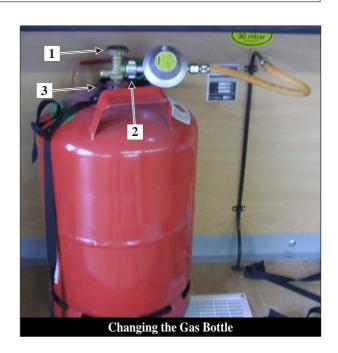


CAUTION:

- The gas regulator is only to be fitted and removed by hand. Do not use any tools for this purpose!
- When changing the gas bottle, it is to be ensured that the gas hose is in good condition and is laid without any kinks!

To change an empty gas bottle proceed as follows:

- 1. Close gas bottle stop valve (1).
- **2.** Unscrew gas regulator (**2**) from the gas bottle by hand (caution: left-hand thread).
- **3.** Undo fastening strap (**3**) and remove empty gas bottle from the gas locker.
- **4.** Place empty gas bottle in a suitable place, never leave empty gas bottles unsecured in the gas locker.
- **5.** Place full gas bottle in the mounting in the gas locker and secure with fastening strap.
- **6.** Screw gas regulator onto the gas bottle by hand (caution: left-hand thread).
- 7. Open gas bottle stop valve (1).





8.8 Duomatic L Plus (gas regulator set with automatic changeover and remote display for the two-bottle system)

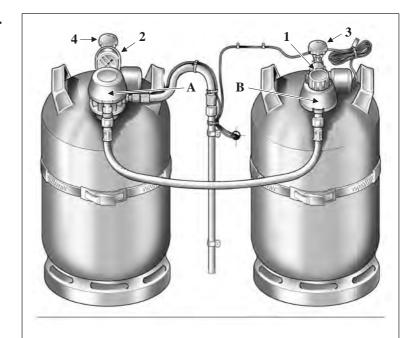
8.8.1 Instructions for the Duomatic

The gas pressure regulator set Duomatic L Plus comprises a central regulator (**A**) and a changeover regulator (**B**).

These provide an even gas pressure (30 or 50 mbar), independent of which of the two gas bottles supplies the gas.

The indicators on the remote display fitted in the vehicle interior provide information on whether the gas bottles are ready to use.

Using a rotary knob on the changeover regulator (1) you can define from which bottle gas is to be drawn. If the rotary knob is in the red, gas is predominantly drawn from the bottle with the central regulator (A). The gas bottle with the changeover regulator (B) is then used as a reserve bottle. If, on the other hand, the rotary knob is in the green, gas is predominantly drawn from the bottle with the changeover regulator (B) and the gas bottle with the central regulator (A) is used as the reserve bottle.



- 1 Changeover regulator rotary knob
- 2 Pressure gauge
- **3** Gas bottle stop valve B
- 4 Gas bottle stop valve A
- A Central regulator
- **B** Changeover regulator

Configuration of the Duomatic L Plus



NOTE:

The rotary knob must always be turned to the stop.

The bottle defined for use by the rotary knob is always emptied first. The gas pressure regulator set then automatically switches to the previously defined reserve bottle.

When the remote display is switched on, the related indicator A (item 5, page 8-8) or B (item 6, page 8-8) goes out and indicates an empty gas bottle.

8.8.2 Important Notes on the Use of the Duomatic

🖙 Always place gas bottle – particularly 33 kg bottles – upright and secure against falling over!



- The regulators are equipped with a combination fitting and are suitable for commercially available 3 kg, 5 kg, 11 kg and 33 kg gas bottles.
- The regulators are always to be fitted such that the protective caps are on top (see figure *page 8-6*).
- Do not kink or tightly bend gas hoses!
- If the gas system is to be operated with only one gas bottle (e. g. in summer), the central regulator (item A, *page 8-6*) is to be used. Turn the rotary knob (1) on the changeover regulator (B) to the red. Hang the unused changeover regulator on the regulator bracket (above the gas pressure regulator set) to protect it from damage.
- The pressure gauge (2) on the central regulator does not indicate the gas bottle contents, but the current gas pressure in the bottle; this pressure is dependent on the ambient temperature.
- Under normal operating conditions it is recommended, to ensure correct function of the system, to change the gas pressure regulator at the latest 10 years from the date of manufacture.

8.8.3 Changing the Gas Bottle on the Duomatic



WARNING:

When changing the gas bottles, you must be aware that there is still gas in an *empty* gas bottle. For this reason smoking and any form of naked flame are forbidden!



The gas pressure regulator enables an empty gas bottle to be changed without interrupting the operation of the appliances, as all the appliance continue to be supplied from the reserve bottle.

If one of the indicators A (item 5, *page 8-8*) or B (item 6, *page 8-8*) goes out, the related gas bottle is empty. Close gas bottle stop valve on the empty bottle and unscrew regulator from the bottle.

After the empty gas bottle has been replaced, the rotary knob (item 1, *page 8-6*) should be turned by 180° to change the gas source.



NOTE:

This step will result in the previous reserve bottle becoming the bottle that is used and the new, full gas bottle is then the reserve bottle.

GAS SUPPLY





8.8.4 Duomatic Remote Display

If the mobile home is also fitted with a remote display, proceed as per section 8.8.4.1 and 8.8.4.2 to use the system.

8.8.4.1 Using the Duomatic in Summer

1. Move rocker switch down to the » 🔆 « position, the power indicator (4) illuminates.

If the gas bottles are ready, the two light emitting diodes indicate which of the two bottles is currently delivering gas:

5 Indicator A = gas bottle A 6 Indicator B = gas bottle B

2. To switch off place the rocker switch in the middle > position, the power indicator (4) goes out.

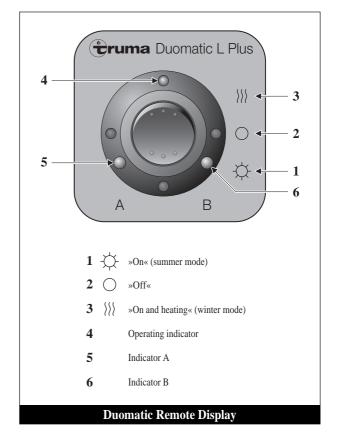
8.8.4.2 Using the Duomatic in Winter

1. Move rocker switch up to the » \\\ « position, the power indicator (4) illuminates.

In addition to the power indicator, the gas pressure regulators (items A and B, *page 8-6*) are heated to ensure a good supply of gas in winter.

If the gas bottles are ready, the two light emitting diodes indicate which of the two bottles is currently delivering gas:

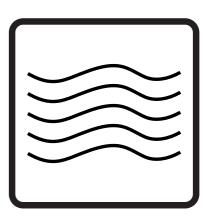
5 Indicator A = gas bottle A
 6 Indicator B = gas bottle B



2. To switch off place the rocker switch in the middle » \bigcirc « position, the power indicator (4) goes out.

You will find further information in the separate manual supplied by the manufacturer.

Section 9



WATER SUPPLY



9. Water Supply

9.1 Fresh Water Supply



CAUTION:

The water pump may only be operated dry for a very short period!

All models have a fresh water tank with a capacity of 90 litres and a water pump that is supplied by the 12 V electrical system. The fresh water tank is fitted in the seat base on both models.

The water pump is fitted in the fresh water tank and is placed in operation when water is drawn from the taps.

9.2 Wastewater Disposal



NOTE:

The wastewater should only be drained on sites with suitable sewage systems or specially designated disposal facilities!



All models have a 80 litre wastewater tank in which the wastewater is collected. The wastewater tank is attached under the floor.

A heater for the wastewater tank as well as pipe heater (for heating the wastewater pipe) is available as an option for both models. In this way the wastewater tank is frost-proof even in low temperatures.

The wastewater is drained using the drain valve (ball valve) fitted to the wastewater tank.

9.2.1 Emptying the Wastewater Tank

To drain the wastewater tank, proceed as follows:

- 1. Place valve lever on the wastewater pipe under the vehicle in the »OPEN« position and drain of the wastewater at a suitable disposal facility.
- 2. Now move the valve lever to the »CLOSED« position to close the wastewater drain again.



9.3 Emptying the Water System

The complete water system should be drained fully if it is not to be used for a time, especially before the mobile home is laid up for the winter.



NOTE:

We recommend that you change the water in the fresh water tank regularly (e.g. weekly) even when the tank is full, as bacteria form in the fresh water after just a few days and will give the water an unpleasant taste.



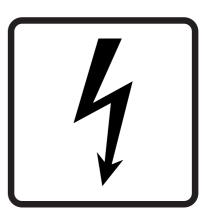
- 1. Drain wastewater tank as per section 9.2.1, page 9-1.
- 2. Drain fresh water tank as per section 9.3.1, page 9-2.
- **3.** Drain hot water boiler as per section 11.3.7, *page 11-7*.

9.3.1 Emptying the Fresh Water Tank

To drain the fresh water tank, proceed as follows:

- 1. Remove the cleaning cover.
- **2.** Remove the plug from the base of the tank.
- **3.** Allow the fresh water tank to drain fully.
- 4. Screw the plug back into the drain hole and replace the cleaning cover.
- 5. Make sure that the water pump (item 10, page 10-4) is turned off at the Onboard Control; all water taps must be open!

Section 10



Power Supply



10. Power Supply



CAUTION:

The electrical system must be checked over by a qualified service centre at least once a year!



10.1 Power Supply 230 VAC (Mains)

You can connect your mobile home to an external power supply of 230 VAC (mains voltage). The 230-Volt power supply must be protected with a residual current circuit breaker (RCCB) rated at 30 mA.

10.2 Making Electrical Connection Between Mobile Home and Power Point



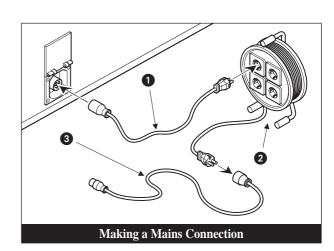
CAUTION:

When using an extension reel without a thermal safety cut-out the electric cable must be fully unwound from the drum.

The mobile home must be connected to the 230-Volt mains with rubber insulated flexible cable » **HO7 RN-F 3G 2.5 mm²** « or equivalent fitted with connectors complying with » **IEC 309** «. The electric cable should not be more than 25 m long in total!

We recommend the following configuration to ensure that you are equipped for all types of connection:

- 1 Adapter cable 2.5 mm²
 - Connector with 'scraping' earth connection
 - Plug with 'scraping' earth connection
- 2 Cable drum with rubber insulated flexible cable HO7 RN-F 3G 2.5 mm² or equivalent
 - > Socket with 'scraping' earth connection
- 3 Adapter cable 2.5 mm²
 - Socket with 'scraping' earth connection
 - Connector with 'scraping' earth connection



POWER SUPPLY







NOTE:

We also recommend that you carry an adapter set so that you can connect a plug with 'scraping' earth connection on one side with the mains socket in the country you are visiting on the other.

- 1. When running the cable to the power point, start from the mobile home and connect up to the power point last.
- 2. When disconnecting the electrical cable, remove the plug from the power point end and then reel the cable in.

When the mobile home is connected to the 230-Volt power supply, both the backup battery (battery 2) and the starter battery (battery 1) are automatically re-charged via the charger.

All 12-Volt appliances are supplied from the backup battery.

10.3 12-VDC Power Supply in the Living Area

When the 230-Volt power supply is not connected or is switched off, the living area of the mobile home is supplied with 12-VDC power from the backup battery (battery 2) whether the vehicle's engine is running or not.

When the engine is running, the backup battery (battery 2) and the starter battery (battery 1) are both charged up by the vehicle's alternator.

The 12-Volt power supply can be switched on and off with the 12-VDC appliance main switch on the Onboard Control (item 9, *page 10-3*):



CAUTION:

Running the electrical appliances in the mobile home (especially the refrigerator and the hot air blower as well as the optional equipment in the mobile home with wastewater tank heater) from the backup battery for too long without a 230-Volt supply and with the vehicle's engine off will considerably affect the capacity of the backup battery!

4

10.4 Onboard Control

The Onboard Control which is fitted as standard can be used to turn the electrical 12-Volt appliances wastewater heater (8) and water pump (10) can be switched on and off either separately with their respective switches or together with the 12-VDC appliance main switch (9).

The electrical appliances are each protected with fuses. The fuses are in the distribution box that on model 551 K is in the kitchen cupboard and on model 551 MQ in the wardrobe.

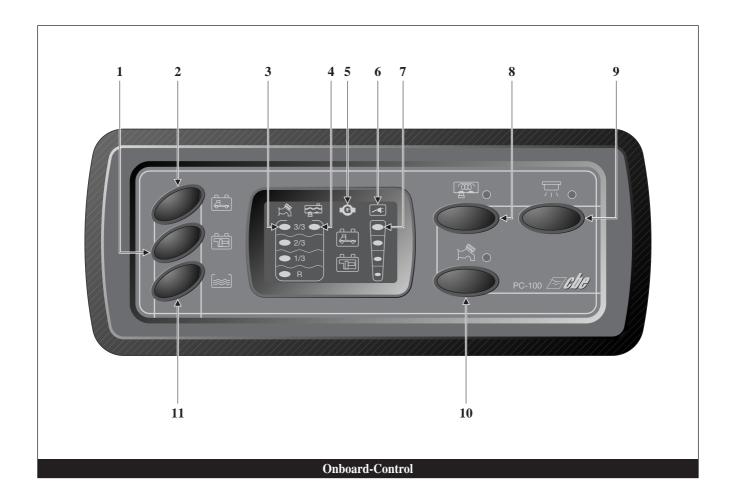
Using the Onboard Control, both the charge state of the starter battery (2) and the charge state of the backup battery (1) as well as the level in the fresh water tank (3) can be checked using the related buttons.

A full wastewater tank is indicated by a red LED (4).

The Onboard Control also incorporates a flat battery monitor. When the battery voltage falls to around 10.0 VDC, all the appliances that can be switched on and off with the main switch are turned off.

These appliances can be turned on again for about 1 minute by operating the appliance main switch 12 VDC (9); these appliances will then be turned off again automatically.

When the voltage is greater than 12 VDC, the appliances are automatically switched back on.



Power Supply



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Key:

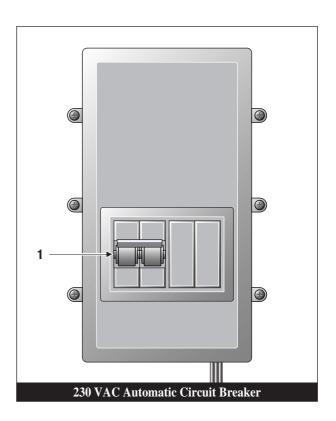
- 1 »Backup battery charge state (2)« button
- 2 »Starter battery charge state (1)« button
- 3 »Fresh water level« LED array
- 4 »Wastewater tank full« LED
- 5 »Starter and backup battery charging by the alternator« indicator
- 6 »230-Volt mains connected« indicator
- 7 »Starter and backup battery voltage monitoring« LED voltmeter
- 8 »Wastewater tank heating element« switch (dependent on the appliance main switch)
- 9 »Appliance main switch« switch
- 10 »Water pump« (operates the pump relay) switch (dependent on the appliance main switch)
- 11 »Fresh water level« button

10.5 Protection of the Electrical Circuits in the Mobile Home

When the mobile home is connected to an external 230-VAC supply it is protected by a 13 Amp automatic circuit breaker (1).

The electrical appliances in the living area connected to the 12-Volt power supply are protected by separate fuses in the distribution box.

The fuse box is in the kitchen cupboard on model 551 K and in the wardrobe on model 551 MQ.





10.6 Electrical Supply

The electrical supply to the appliances in the mobile home is divided up as follows:

230 VAC (mains connection)	12 VDC (backup battery)
▶ 230 Volt sockets	▶ Lights
→ Charger	▶ Refrigerator
	▶ Water pump
	▶ Thetford toilet flush
	▶ Heate
	▶ 12 Volt sockets
	▶ Wastewater tank heating/pipe heating (optional)

10.7 12 VDC Supply from Backup Battery and Charger

10.7.1 Backup Battery



WARNING:

Observe the separate instructions from the battery manufacturer!

The backup battery (battery 2) with the main appliance fuse is fitted under the passenger's seat. This means that the mobile home has its own 12-Volt power supply.

The charge state of the starter battery (battery 1) and the backup battery (battery 2) can be checked by pressing the corresponding button (Starter battery charge state button item 2, *page 10-3*, Backup battery charge state button item 1, *page 10-3*) on the Onboard Control.

It is advisable to charge the backup battery with the charger for at least 10 hours before use. Switch off all electrical appliances while charging so as to achieve a rapid and optimum charge. Charging should be supervised. This can be done using the button and the LED display on the Onboard Control. Before connecting up to the 230-Volt mains you should check the level of charge in the backup battery by pressing the button (item 1, *page 10-3*) on the LED array.



Once you have connected up to the 230-Volt supply, press the button again and watch the LED display. The LED display should now light up at the top around the »FULL« mark. If it does, this indicates that the charger is working correctly. If the LED display does not change, this indicates that the charger is not charging. The reason must be identified, i.e., the switch on the charger must be switched on (indicator on the switch illuminates).



NOTE:

- A totally discharged battery that cannot be re-charged must be replaced because this damage is irreparable.
- Even when appliances are switched off, the backup battery is still required to supply a small amount of current to electrical systems such as the frost protection valve, the charger, the Onboard Control etc., so the level of charge in the backup battery should always be checked to prevent it being damaged!



CAUTION:

- **□** On an extended period without use, the backup battery is to be fully charged and then the battery terminal on the negative pole () is to be undone and removed.
- The fully charged battery should be disconnected and removed from the vehicle in winter.
- A complete discharge can damage the battery beyond repair.
- The backup battery may only be charged with a suitable charger when out of the vehicle!

The 12-Volt supply can be switched on and off with the 12-VDC appliance main switch on the Onboard Control (item 9, *page 10-3*). The electrical supply to the refrigerator and the Truma heater is however maintained.

10.7.2 Charger

The use of high-quality electronics means that the charger operates virtually without loss of power. The automatic charging process charges the batteries gently and without harmful overloading, thereby considerably enhancing battery life.

The charger is protected against overtemperature, and the 12-Volt output is protected against short circuit.

You will find further information about the battery charger in the separate operating instructions from the manufacturer.



10.7.3 Example Showing How to Calculate Electricity Consumption (using 80 Ah battery)

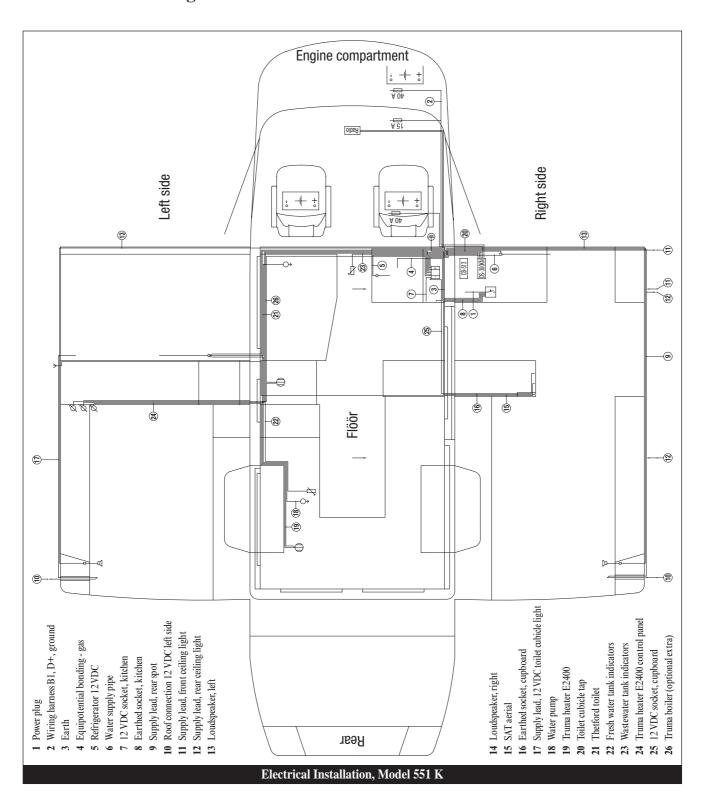
These values are »approximate figures« and depend on the related model.

Rating			Summer			Winter		
Appliance	Power	Current	Hrs/say (operating hours)	Power per day	Current per day	Hrs/say (operating hours)	Power per day	Currer per da
Spots, each	10 W	0,8 A	2,0	20 W	1,6 Ah	4,0	40 W	6,4 A
Kitchen light	8 W	0,7 A	1,0	8 W	0,7 Ah	2,0	16 W	1,4 A
Refrigerator	48 W	4,0 A	5,0	240 W	20 Ah	5,0	240 W	20 Al
Light, toilet cubicle	8 W	0,7 A	1,0	8 W	0,7 Ah	1,5	12 W	1,05 A
Water pump	40 W	3,4 A	0,5	20 W	1,7 Ah	0,5	20 W	1,7 A
Heater/hot water boiler	72 W	6,0 A	3,0	216 W	18,0 Ah	16,0	1.152 W	96,0 A
Ceiling/locker light	8 W	0,7 A	1,0	8 W	0,7 Ah	2,0	16 W	1,4 A
TV	40 W	3,4 A	2,0	80 W	6,8 Ah	4,0	160 W	13,6 A
	Power co	nsumption	Total ►	600 W	50,2 Ah	Total ►	1.656 W	141,55
Approx. 1.5 day between charges				Approx. 0.	5 day betwe	en charg		

Example Showing How to Calculate Electricity Consumption (using 80 Ah battery)

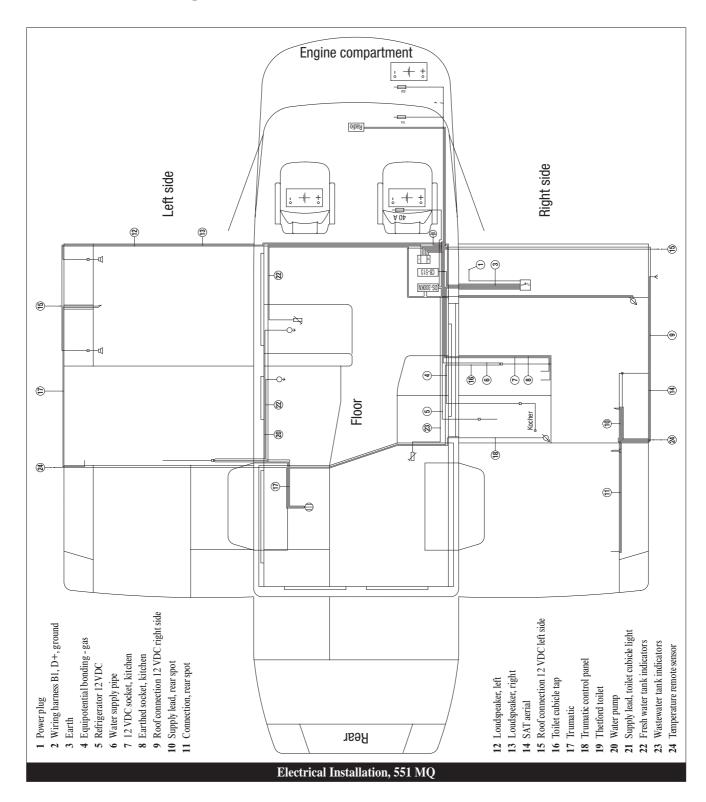


10.8 Circuit Diagram Model 551 K





10.9 Circuit Diagram Model 551 MQ



Section 11



HEATING & HOT WATER



11. Heating & Hot Water

11.1 General Notes on the Heater and Hot Water Heating

On model 551 K the Trumatic E (optional Trumatic C) gas heater is used. The heater is operated and controlled using the control panel with a rotary switch and is described from section 11.2.

On model 551 MQ the gas heater is integrated into the hot water boiler. The operation and control of the Trumatic C heater is described in section 11.3 on *page 11-3*.

11.2 Switching On the Trumatic E Heater



WARNING:

The separate manual from the manufacturer is to be read prior to using the heater!

- 1. Remove chimney cover.
- **2.** Open the gas bottle stop valve and gas tap for the heater » (π) «.
- **3.** Place rotary knob (1) at the required thermostat setting 1-9, green indicator (3) illuminates.
- **4.** Turn rotary switch (2) to the required power (4/5).

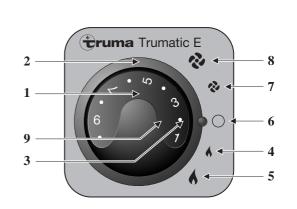
Further information on the operation of the heater can be found in the separate manual from the manufacturer.



CAUTION:

Work on the electronic control unit for the Trumatic may only be carried out by a qualified and trained service engineer.

If the green indicator (3) does not illuminate, check the (main) switch. See separate manual from the vehicle manufacturer.



- Rotary knob for room temperature, continuously adjustable (illuminated by green »operating« LED)
- 2 Operating mode rotary switch
- 3 Green »operating »indicator«
- 4 Rotary switch position, small flame symbol »partial load«
- 5 Rotary switch position, large flame symbol »full load«
- 6 Rotary switch position, »Off«
- 7 Rotary switch position, small ventilation symbol »partial load«
- 8 Rotary switch position, large ventilation symbol »full load«
- 9 Red »Fault« indicator

Trumatic E Control Panel (Model 551 K)

HEATING & HOT WATER



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- © Continuous illumination of the red indicator (item 9, *page 11-1*) indicates low gas, a shortage of air for combustion, a heavily soiled fan impeller or a faulty fuse.
 - The fault is reset by turning the appliance off and then on again.
- If the red indicator (item 9, *page 11-1*) flashes, the operating voltage supplied to the appliance is too high or too low (if necessary recharge battery).

11.2.1 Adjusting the Trumatic E Heater

► Turn the rotary knob (item 1, *page 11-1*) to the desired room temperature - the integral thermostat will now automatically maintain a constant temperature to your setting.

11.2.2 Switching On the Trumatic E Ventilation

▶ Set rotary switch (item 2, *page 11-1*) to the required power (item 7 / 8, *page 11-1*).

11.2.3 Switching Off the Trumatic E Heater

- **1.** Set rotary switch (item 2, *page 11-1*) to the » \bigcirc « position (item 6, *page 11-1*).
- 2. Close the gas tap for the heater » (a) « and close the gas bottle stop valve if required.
- **3.** Fit chimney cover.

Further information on the operation of the heater can be found in the separate manual from the manufacturer.



11.3 Trumatic C Heater/Boiler

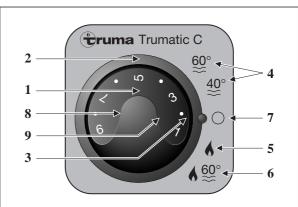
11.3.1 Heating with Hot Water Requirement



WARNING:

The separate manual from the manufacturer is to be read prior to using the heater!

- 1. Remove chimney cover.
- 2. Open the gas bottle stop valve and gas tap for the heater » $\ \ \bigcirc \ \$ «.
- **3.** Place rotary knob (1) at the required thermostat setting 1-9, green indicator (3) illuminates and indicates the position for the room temperature set.
- **4.** Set rotary switch (2) in the operating position (6).



- 1 Rotary knob for room temperature, continuously adjustable 1-9 (illuminated by green »operating« LED)
- 2 Operating mode rotary switch
- 3 Green »operating« indicator
- 4 Summer mode »On«
- (Water temperature 40 °C or 60 °C)
- 5 Winter mode »On«
- »Heating without hot water requirement
- 6 Winter mode »On« »Heating with hot water requirement«
- 7 Rotary switch, »Off«
- 8 Yellow indicator »Boiler warm-up phase (goes out when the pre-set water temperature is reached)
- 9 Red »Fault« indicator

Trumatic C Control Panel (Model 551 MQ)

Further information on the operation of the heater can be found in the separate manual from the manufacturer.



CAUTION:

Work on the electronic control unit for the Trumatic may only be carried out by a qualified and trained service engineer.

11.3.2 Heating without Hot Water Requirement



WARNING:

The separate manual from the manufacturer is to be read prior to using the heater!

1. Remove chimney cover.

HEATING & HOT WATER



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- 2. Open the gas bottle stop valve and gas tap for the heater » (1) «.
- **3.** Place rotary knob (1) at the required thermostat setting 1-9, green indicator (3) illuminates and indicates the position for the room temperature set.
- **4.** Set rotary switch (2) in the operating position (5).

Further information on the operation of the heater can be found in the separate manual from the manufacturer.



CAUTION:

Work on the electronic control unit for the Trumatic may only be carried out by a qualified and trained service engineer.

- If the green indicator does not light up (no. 3, *page 11-3*), replace the fuse in the electronic control unit or the fuse for the battery monitor.
- The green indicator (item 8, page 11-3) illuminates while the hot water boiler is heating up.
- If the red indicator (item 9, *page 11-3*) is continuously illuminated, the gas bottle stop valve and/or the gas tap may be closed or there may be an inadequate supply of air.

 The fault is reset by turning the appliance off and then on again.
- If the red indicator (item 9, *page 11-3*) flashes, the operating voltage supplied to the appliance is too low (recharge battery).

You will find further information in the separate manual supplied by the manufacturer.

11.3.3 Adjusting the Trumatic C Heater/Boiler

► Turn the rotary knob (item 1, *page 11-3*) to the desired room temperature - the integral thermostat will now automatically maintain a constant temperature to your setting.

11.3.4 Switching Off the Trumatic C Heater/Boiler

- **1.** Set rotary switch (item 2, *page 11-3*) to the \rightarrow 0 « position (item 7, *page 11-3*).
- 2. Close the gas tap for the heater » (1) « and close the gas bottle stop valve if required.
- 3. Fit chimney cover.

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11.3.5 **Hot Water Supply Using the Trumatic C**

Model 551 MQ is equipped as standard (optional on model 551 K) with a supply of hot water (hot water boiler in the Trumatic). The 12.5 litre hot water boiler provides hot water within a temperature range of 40 to 70 °C.



CAUTION:

The water pump must not be operated unless a supply of water is ensured!

The switch for the water pump (item 10, page 10-4) is on the Onboard Control. This switch is dependent on the position of the appliance main switch (item 9, page 10-4).

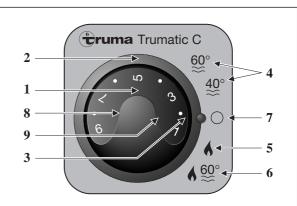


NOTE:

Switch off the main switch for the water pump during long absences!

11.3.6 **Hot Water Heating**

- 1. Fill fresh water tank.
 - Ensure that the drain valve in the fresh water tank is closed. that the button on the safety/drain valve is in the »CLOSED« position and that the water pump is turned on.
- 2. Now open the hot water tap (water tap in the »hot« mixer position) until the hot water boiler has filled, i.e. air has been forced out of the hot water boiler and the water pipes, and water is flowing.
- 3. To operate the hot water boiler, first switch on the 12 VDC or 230 VAC power supply.
- **4.** Connect a gas bottle and open the gas bottle stop valve on the gas bottle. Open gas tap » (1) « (on model 551 K at rear left in the bed base, on module 551 MQ at rear left in the cupboard under the bed).
- 5. Select the required mode, summer (4) or winter (5/6) with the rotary switch (1) on the Trumatic control panel. Once one of the two modes is switched on, a green indicator behind the rotary knob (3) lights up.



- Rotary knob for room temperature, continuously adjustable 1-9 (illuminated by green »operating« LED)
- 2 Operating mode rotary switch
- Green »operating« indicator
- Summer mode »On«
- (Water temperature 40 °C or 60 °C) Winter mode »On«
- - »Heating without hot water requirement«
- Winter mode »On«
 - »Heating with hot water requirement«
- Rotary switch, »Off«
- Yellow indicator »Boiler warm-up phase« (goes out when the pre-set water temperature is reached)
- Red »Fault« indicator

Trumatic Hot Water Heating Control Panel

HEATING & HOT WATER



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- 6. In »Winter mode with hot water requirement (item 6, *page 11-5*)« both the heater and hot water heating are turned on. The green indicator (item 8, *page 11-5*) illuminates while the heater is warming up.

 In the »Summer mode« the hot water is heated with the lowest burner setting. The green indicator (item 8, *page 11-5*) illuminates while the heater is warming up.
- 7. Select the required temperature 60° or 40° with the rotary switch (item. 2, *page 11-5*). This function is only available in Summer mode. Once the water has reached the desired temperature the burner shuts off and the yellow indicator goes out.
- **8.** To turn off the heater move the rotary switch (item 2, *page 11-5*) to the » \bigcirc « position. Close the gas tap for the heater » \bigcirc « and close the gas bottle stop valve if required.



CAUTION:

Work on the electronic control unit for the Trumatic may only be carried out by a qualified and trained service engineer.

- If the green indicator does not light up (no. 3, *page 11-5*), replace the fuse in the electronic control unit or the fuse for the battery monitor.
- If the red indicator (item 9, *page 11-5*) is continuously illuminated, the gas bottle stop valve and/or the gas tap may be closed or there may be an inadequate supply of air.

 The fault is reset by turning the appliance off and then on again.

You will find further information on hot water heating in the separate manual supplied by the manufacturer.



11.3.7 Emptying the Hot Water Boiler

To drain the hot water boiler, proceed as follows:



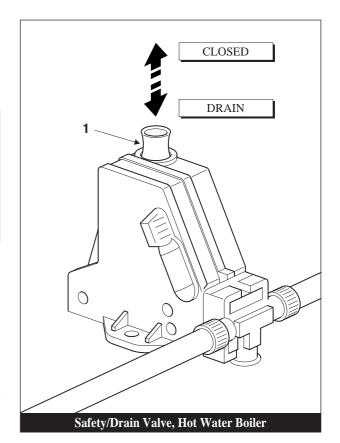
CAUTION:

The drain plug on the electric safety/drain valve must be kept free from obstructions (slush, ice, leaves etc.) at all times!

- 1. Switch off water pump using the switch (item 10, *page 10-3*) or appliance main switch (item 9, *page 10-3*).
- 2. Open all the hot water taps in the kitchen and bathroom.
- 3. Push the button (1) to the »DRAIN« position.

 This drains the contents of the hot water boiler directly to the exterior via the safety/drain valve.

 During draining check that the entire contents of the hot water





CAUTION:

boiler (approx. 12.5 litres) empties completely.

When heating is off, the safety/drain valve can only be closed again at temperature above 8 °C.



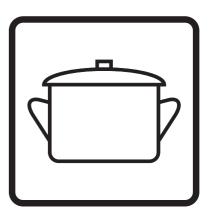
NOTE:

When temperatures at the safety/drain valve are below approx. 10 °C and the appliance is not in operation or has a fault, the water can drain off by itself!

As all other appliances in the water circuit (water pump, taps etc.) are not protected by the frost protection valve and the automatic drain could be obstructed by dirt or ice, the water must be drained after the boiler is turned off if there is a risk of frost.

You will find further information on draining the hot water boiler in the separate manual supplied by the manufacturer.

Section 12



Cooking



12. Cooking

12.1 Using the Gas Cooker

- 2. Lift up the cover on the hob.



WARNING:

- When using the cooker you must open a window or roof light to ensure an adequate supply of oxygen to the interior of your mobile home!
- The gas cooker should never be used as a heater!
- Explosion hazard Never allow gas to escape unburned!
- The user must be able to keep the gas lighting process in full view
 - this must not be concealed by pots etc!
- The flame safety cover must be lifted up whenever the cooker is in use!





- 3. To light the burner, turn the required control knob on the hob to low or high flame, push down and hold.
- **4.** Light the escaping gas with suitable lighter and keep the control knob held down for a further 5 to 7 seconds until the thermocouple has responded. The flame may go out if the control knob is released too soon. Repeat the operation if this happens.
- **5.** To switch off the gas cooker turn the control knob to the » « position.

If the thermocouple is bent or faulty the burner will not operate correctly and the flame will keep going out even though the control knob is held down for a long time.

If this happens a new thermocouple must be fitted by a qualified engineer.

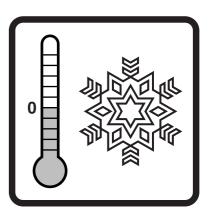


NOTE:

A flame with an indistinct pattern is a sign of poor combustion, and we therefore recommend annual servicing by a qualified engineer.

You will find further information in the separate manual supplied by the manufacturer.

SECTION 13



REFRIGERATOR



13. Refrigerator

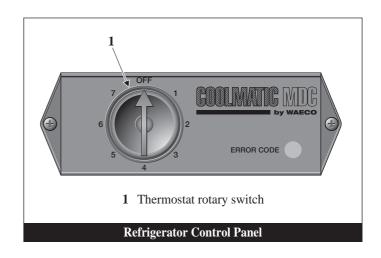
The compressor refrigerator with a capacity of 65 litres is operated with 12 VDC. The refrigerator will reach its operating temperature after a few hours.



NOTE:

The refrigerator can only be operated with 12 VDC!

13.1 Refrigerator Control Panel



13.2 Switching On the Refrigerator



NOTE:

The refrigerator is ready for use immediately after the vehicle ignition is switched on.

1. The required temperature is set using the thermostat rotary switch (1).

The following thermostat settings are possible:

Thermostat setting 1 Lowest cooling setting
Thermostat setting 7 Highest cooling setting
Thermostat setting OFF Refrigerator off



13.3 Switching Off the Refrigerator

- 1. Turn the thermostat rotary switch (item 1, *page 13-1*) to the » OFF « position. The appliance is now turned off completely.
- 2. To avoid the formation of mould in the refrigerator, place the refrigerator at locking position 1 (see *page 13-3*). Open and close the refrigerator door are per the figure on *page 13-3*.

13.4 Defrosting the Refrigerator

Frost will build up on the cooling fins in time. The refrigerator should be defrosted when the frost is about 3 mm thick.

To do this, proceed as follows:

- 1. Turn off the refrigerator as described in section 13.3.
- 2. Remove the ice tray and food.
- 3. Leave the refrigerator door ajar.
- **4.** After defrosting (frost has disappeared from the froster compartment and the cooling fins) wipe the inside of the refrigerator dry with a cloth.
- 5. Soak up the condensation in the froster compartment with a cloth.
- **6.** Turn on the refrigerator again.



CAUTION:

Never use force to remove the frost, and never attempt to speed up the defrosting process with a radiant heater!



NOTE:

The condensation from the main refrigerator compartment drains into a collector at the back of the refrigerator. Here the water will evaporate.



13.5 Storing Food

- Always keep food in closed containers, aluminium foil etc.
- Prever place hot food straight into the refrigerator, always allow to cool first.
- Foodstuffs which can give off volatile flammable gases must not be kept in the refrigerator.

The 2-star froster compartment (max. -12 °C) is suitable for making ice cubes and for storing frozen foods for a short period only.

The froster compartment is not suitable for freezing food.

13.6 Making Ice Cubes

Ice cubes are best made at night. At night the refrigerator is used less and the unit has spare power.



CAUTION:

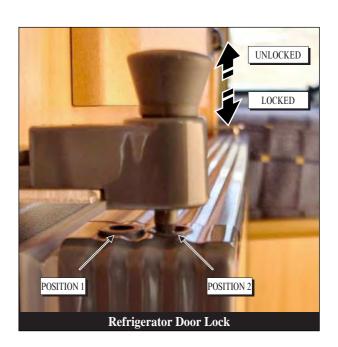
Use only drinking water to make ice cubes!

▶ Fill the ice tray with drinking water and place in the froster compartment.

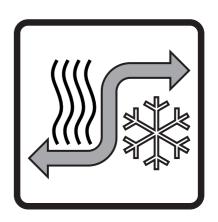
13.7 Door Lock

- ► Unlock and lock the refrigerator door as per the adjacent figure.
- At »position 1« the refrigerator door is ajar. The refrigerator is left in this position when temporarily laid up.
- ► The refrigerator door is closed in »position 2«. The refrigerator is left in this position when in use.

You will find further information in the separate operating instructions supplied by the manufacturer.



Section 14



AIR CONDITIONING

AIR CONDITIONING

WEINSBERS



14. Air Conditioning



NOTE:

Please contact your WEINSBERG dealer to talk about the installation of an air conditioner!

SECTION 15



TOILET



15. Toilet

15.1 Thetford Unit



CAUTION:

The Thetford unit should only be drained on sites with suitable sewage systems or specially designated disposal facilities!



1. Before using the toilet, push down the flush button briefly to allow a small amount of water into the bowl. Repeat as necessary.

The flow of water stops when the button is released.

2. After use, push down the flush button and turn counter-clockwise at the same time. This turning motion opens the valve in the WC.

The toilet bowl is flushed thoroughly but is economical on water.

3. After flushing, turn the flush button clockwise to close the valve again. The toilet can also be used with the valve open.



CAUTION:

- If there is a risk of frost and the mobile home is not heated the Thetford unit should be drained to prevent it from freezing.
- In winter the toilet flush should not be used until the toilet cubicle has thoroughly warmed up otherwise the water pump in the Thetford flush may be damaged.
- An environmentally friendly and fully bio-degradable chemical WC additive should be used for the WC.
- If environmental concerns exist, the WC can also be used without chemical additives but the Thetford unit will require more frequent draining as a result.

You will find further information on the Thetford toilet in the separate manual supplied by the manufacturer.

Section 16



WINTER CAMPING

WEINSBERG



16. Winter Camping

16.1 General Notes on Winter Camping

If you plan to enjoy the freedom of camping life in winter as much as in summer, then here are some hints which you should follow:

- After driving on roads that have been sprayed with salt, wash the underbody of the base vehicle with water.
- Find out as much as you can about weather and driving conditions before you set out and during your journey.
- Your mobile home has all-round insulation and double glazing and is perfectly 'winter-worthy' if used correctly. The water supply is inside the vehicle on all models.
- Proper ventilation is just as important in winter as it is in summer. Ski boots and other wet items will increase the level of moisture and condensation inside the mobile home.
- Heating is of course particularly important in winter, For this reason the heating the heaters installed as standard are normally adequate is particularly important for winter camping. Quick removal of the water vapour generated by cooking, wet clothing and breathing is particularly important for camping in winter. In addition to good ventilation, the heated air will rapidly eliminate the water vapour, as warm air can absorb much more moisture than cold air. When there is moisture in the air, the lower the room temperature the quicker that condensation will form if there is a slight difference between the temperature of the room air and the temperature on the inside wall.
- The windows, window frames and the corners of storage lockers are particularly prone to condensation depending on use, the number of persons, the site and the level of humidity both inside and outside the mobile home. Adequate heating of the mobile home with the recirculation fan switched on will improve this situation.

16.2 Additional Notes on Winter Camping

- Secure the mobile home against rolling away then release the parking brake to prevent it from freezing.
- Place all cushions in the mobile home upright to ensure that they are aired and dried.
- Use only 100 % propane in winter as butane will not gasify below freezing point. Make sure you have an adequate supply of gas bottles.
- 🖙 Avoid the use of electrical appliances that consume a lot of power. Campsites do not have unlimited amounts of electricity.
- In cold weather the water pipes in the mobile home can freeze if the vehicle is left for long periods with the heating switched off.
- To prevent freezing, drain the wastewater tank with the heating off, please refer to Section 9.2.1, page 9-1.

WINTER CAMPING





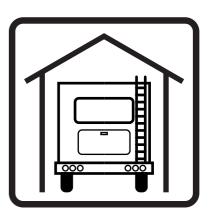
- The backup battery (battery 2) should be kept fully charged at all times.
- while heating up the vehicle, open all cupboards, flaps and storage lockers to prevent condensation forming.
- Avoid storing containers (bottles, cans etc.) with water, juice or other liquids in the unheated mobile home as they may freeze.
- © Carefully remove all snow and ice from the roof of the vehicle and from the awning; it is particularly important to ensure that the flue on the side wall is kept free at all times.
- Always keep the forced air vents open, and open the roof light slightly if required.
- ☑ Never run power cables on the ground they may freeze to the soil or be damaged by snow clearing vehicles.
- Keep metal taps open in an unheated caravan at low temperatures, even if the water system has been drained. Always remember to open the mixer lever in both the cold water (blue) and the hot water (red) positions and then to leave it in one of these opened positions.

16.3 Recommended Accessories for Winter Camping

To be prepared for any eventuality when winter camping, we recommend the following accessories:

*	Winter cover for refrigerator (optional extra)	
*	Snow shovel	
*	Brush	
*	Plastic ice scraper	
*	Deicer spray	
*	Talcum powder or Vaseline	
*	Cooking salt or environmentally friendly anti-freeze additive for the wastewater tank	
*	Snow slip mats	
*	Snow chains (CAUTION: Forbidden for aluminium wheels!)	
*	Jump starting cables	
*	A bag of sand is always useful should you get stuck in snow	

Section 17



LAYING-UP



17. Laying-up

17.1 General Notes for Temporary Laying-up

The mobile home will not suffer from being left outdoors provided a number of precautions are taken.

If the mobile home is to be temporarily laid up you should follow these steps:



NOTE:

You should completely drain the water system even if you are only laying up the vehicle for a short period. Bacteria will grow in the fresh water after just a few days, making the water undrinkable!

For the fresh water tank we recommend a disinfectant that is available from your WEINSBERG dealer.

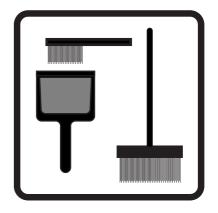
- ► Completely drain the entire water system.
- ► Charge up the backup battery and disconnect both terminals.
- Leave taps open even with the water supply drained. Always remember to open the mixer lever in both the cold water (blue) and the hot water (red) positions and then to leave it in one of these **opened** positions.
- ▶ Remove any traces of corrosion and repair minor damage to paintwork. Products suitable for repairing paintwork are available from your *WEINSBERG* dealer.
- ► Thoroughly wash your mobile home and apply a paint care product. Products suitable for the care of your mobile home are available from your *WEINSBERG* dealer.
- ► Coat rubber seals, weather strips etc. with talcum powder or Vaseline.
- ▶ Clean cupboards and refrigerator, then place refrigerator door in »position 1« (see section 13.7, page 13-3).
- ▶ Place all cushions upright, or keep them indoors.
- ► Ensure that forced air vents are not obstructed.
- ▶ Open cupboards, flaps and storage lockers.
- ► Grease all moving parts of the support legs.
- ▶ If you plan to cover the vehicle with a tarpaulin etc., ensure that air can still circulate over the roof, e.g. by placing light wooden battens on the roof). The tarpaulin or sheet should not stick to the outer skin of the mobile home.

LAYING-UP



- ► Clear heavy snow off the roof.
- ► Regularly air the mobile home.
- ▶ We recommend that you heat the mobile home through and air it thoroughly once a month in the winter.
- ▶ Before using the mobile home again, open all water taps and thoroughly flush all water pipes with fresh water.
- ▶ If the mobile home has been laid up for a long period of time, have the brake system checked over by an authorised service centre before using it again.

SECTION 18



CLEANING & CARE



18. Cleaning & Care

18.1 Cleaning and Care of the Exterior of the Mobile Home

The outer skin of the mobile home is made from aluminium sheet. The surface of this aluminium sheet is stove enamelled with an acrylic paint. This process - known as polyester coil coating - is a modern, environmentally friendly way of surface finishing which creates high colour brilliance and is extremely durable.

To maintain the high quality of the finish you should care for the paintwork as described below.

Salt, soot, bird droppings and other aggressive substances should always be removed from the paintwork of the mobile home immediately before they have time to leave a stain.

▶ Wash your mobile home with water regularly if you are near the sea.

You should clean your mobile home as you would a car:



WARNING:

Take extra caution when walking over the roof of the vehicle when wet or icy. There is an increased danger of slipping or falling off!





CAUTION:

- Avoid localised loads (e.g. kneeling) as far as possible if you need to go onto the roof of the mobile home! Walk only in the horizontal areas of the mobile home roof and wear soft-soled shoes (e.g. trainers or pumps)!
- Avoid walking on the mobile home roof with textured-soled footwear as any stones embedded in the soles will dent the outer skin of the mobile home!
- ► Thoroughly wet the vehicle and rinse off with water.
- ► Shampoo your mobile home with a pH neutral product (pH: 6-8). Don't forget the roof!
- Now thoroughly rinse off the vehicle with water, and dry.
- ▶ Use only sponges, soft cloths or soft brushes. Hard tools can damage the paintwork.

CLEANING & CARE





- ▶ The mobile home should be waxed from time to time to protect and enhance its sheen. Apply the coat of wax as directed by the manufacturer.
- ▶ To freshen up old paint, the mobile home can be treated with a suitable polish. Here again, you should follow the manufacturer's directions.
 - Polishing can attack the paint surface of your mobile home (abrasion) so do not apply polish unless absolutely necessary.
- ▶ Plastic parts must not be treated with aggressive cleaning agents (benzene, methylated spirits, thinners, etc.), on this topic see section 18.1.1.
- ► Tar stains or other organic stains on the painted surface are best removed with benzene. We strongly advise against the use of other solvents!
 - Insects should be softened with water and then removed with a sponge wrapped in a nylon stocking.
- ▶ Damage to the surface of your mobile home should be repaired immediately with refinish paint to prevent corrosion taking a hold.
- ► Check the condition of the underbody protection once a year. Please contact your *WEINSBERG* dealer if the underbody protection is damaged.
- ▶ After driving on roads that have been sprayed with salt, wash the underbody of the base vehicle with water.

18.1.1 Cleaning Plastic Parts on the Exterior of the Mobile Home

- ▶ Plastic products can be carefully cleaned using warm water with the addition of a very slightly acidic, neutral or very slightly alkaline cleaner.
- ▶ You can use low concentrations (< 2 %) of mild household cleaners dissolved in water.
- ▶ Abrasive agents like scouring powder are not recommended as they will scratch plastic surfaces.
- ▶ Very greasy or oily surfaces can be washed down with petroleum substances free from aromatic compounds such as ethanol. The use of organic solvents can damage the material.
- ▶ Plastic mouldings can be damaged by stress cracks caused by a variety of products. Other chemicals can cause the plastic to swell and soften. These mouldings should therefore only be exposed to contact with the solvents listed above for short periods (2 minutes maximum) at room temperature.



NOTE:

Please refer to the chemicals compatibility list!

WEINSBERG



18.2 Care and Cleaning of the Inside of the Mobile Home



CAUTION:

- Use only normal household care and cleaning products!
- ☐ Caustic and abrasive products should not be used!
- Avoid using anything that might scratch or score surfaces!
- ▶ The furniture should only be cleaned with a special cleaner that is available commercially. This cleaner is also available from your *WEINSBERG* dealer. Strong, powerful cleaning products should not be used.
- ▶ Clean table tops and kitchen worktops using only water with washing-up liquid or a mild household cleaner.
- ▶ The kitchen sink is made from stainless steel and can be cleaned with products that are available in the shops.
- ▶ Dry clean upholstery covers, curtains and the diolene blinds.



CAUTION:

The toilet cubicle is only allowed to be cleaned with a little water with a mild cleaner and a damp cloth!

► Clean toilet cubicle with a little water with a mild cleaner and a damp cloth.



CAUTION:

Never lay the carpet onto wet PVC floor covering as the carpet can stick to the PVC and pull the covering with it when the carpet is next taken up!

- ▶ The PVC floor covering is hard-wearing and easy-care. To clean it, just wet-mop and rub dry, use no wax.
- ► Never use abrasives or aggressive cleaners.

18.2.1 Cleaning Plastic Parts Inside the Mobile Home

▶ Plastic products can be carefully cleaned using warm water with the addition of a very slightly acidic, neutral or very slightly alkaline cleaner.



- ▶ You can use low concentrations (< 2 %) of mild household cleaners dissolved in water.
- ▶ Abrasive agents like scouring powder are not recommended as they will scratch plastic surfaces.
- ▶ Very greasy or oily surfaces can be washed down with petroleum substances free from aromatic compounds such as petroleum ether, ethanol or perchloroethylene. The use of organic solvents can damage the material.
- ▶ Plastic mouldings can be damaged by stress cracks caused by a variety of products. Other chemicals can cause the plastic to swell and soften. These mouldings should therefore only be exposed to contact with the solvents listed above for short periods (5 minutes maximum) at room temperature.



WARNING:

Avoid contact with concentrated acids!



▶ While cleaning, keep mechanical stress on mouldings, e.g. squeezing, to a minimum to prevent distortion. Water used for cleaning should be softened to prevent scaling. Scale deposits can be removed with diluted acids such as acetic acid.

18.3 Cleaning Acrylic Glass Windows



CAUTION:

- The acrylic glass windows must not be cleaned using chemical cleaners, glass cleaners or products that contain alcohol spirit. Cleaning products must not contain plasticizer as this would cause the acrylic glass windows to become brittle and crack!
- Avoid twisting and distorting the windows when opening and closing them.
- ▶ The acrylic glass windows should be cleaned using plenty of water with a clean sponge and a soft cloth.
- ▶ The only liquid which you should allow to come into contact with the acrylic glass is water with the addition of a 10 % solution of mild washing-up liquid to keep the windows clear and free from static.
- ▶ To remove stubborn stains use a special acrylic glass cleaner that is available from your **WEINSBERG** dealer.
- ▶ Regularly lubricate all hinges, flaps and windows with acid-free battery terminal grease or gun oil (e.g. Ballistol) to ensure that moving parts continue to move freely and do not seize.





NOTE:

Because of the physical properties of acrylic glass, the colder of the two glass panes, usually the one on the outside, will mist up on the inside. This condensation will disappear when the air around the window is very dry, but this process of diffusion can be quite slow.

18.4 Care and Cleaning of the Roof Window



CAUTION:

- Failure to follow the instructions for the care and cleaning of the roof window will void the manufacturer's warranty!
- When washing the mobile home it is to be ensured that the water jet is not pointed at the roof window. There is an air gap around the glass dome and the frame (forced ventilation) through which the water could enter the mobile home.
- ► Never use aggressive cleaners (solvents/scouring agents).
- ▶ Only clean acrylic glass (glass dome) and frame elements with a damp cloth and mild soap solution, if necessary use a special cleaner (at your own risk). This special cleaner is available from your *WEINSBERG* dealer. Ensure that there is no water on the mechanical parts.
- ► Treat all rubber seals with talcum powder.
- ► The 4 ventilation grilles and light covers can be removed for cleaning.
- ▶ Clean cover and mosquito blind with a soft brush, if necessary with a damp cloth.

18.5 Care and Cleaning of the Sun Awning

▶ The tent fabric should be regularly cleaned with a sponge and clean water or PVC cleaner as dirt particles can otherwise quickly create a culture medium for the growth of mould and bacteria.





18.5.1 Dealing with Mould on the Awning

It does not take long for mould to appear on the fabric of the awning if it is not cleaned and aired regularly, e.g. if it is folded up and stowed away when wet. Avoid the use of strong solvents in this case!



WARNING:

- When applying fungicides you must use protective equipment such as safety glasses, mask and safety gloves, and ensure that the area is well ventilated!
- The directions for use in the leaflet enclosed with the fungicide must be strictly followed.







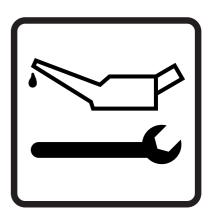
- ▶ Clean the affected area with a 3% caustic soda solution (available from any pharmacist).
- ▶ Allow the caustic soda solution to act, then thoroughly rinse the fabric and dry.
- ▶ Repeat this treatment at regular intervals.

18.5.2 Treatment of Stiff Zip Fasteners

The zip fasteners on the awning can sometimes be stiff when new.

▶ This can be cured by rubbing candle wax into the zips or spraying them with a silicone spray.

Section 19



MAINTENANCE & INSPECTION



19. Maintenance & Inspection

19.1 **Servicing**

For the sake of road safety your mobile home must be regularly and properly serviced, just like a car.



CAUTION:

- © Carrying out maintenance work on your mobile home requires specialist skills and knowledge. This is why you should have your mobile home serviced only by an authorised service centre.
- The service centre will stamp your Customer Service Record Book to confirm that the leak tests on all tanks and pipes, hoses etc. have been carried out.
- If any parts need replacing, ensure that the manufacturer's original spare parts are used.



NOTE:

For mobile homes that are not used very often, servicing should be carried out once a year and in plenty of time before the start of a journey.

Intervals for Statutory Testing and Exhaust Gas Test 19.2

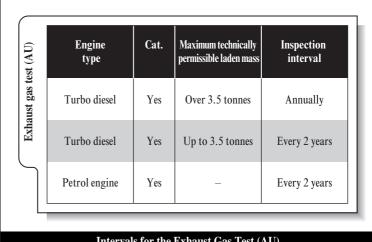
Under Section 29 StVZO, mobile homes under 3.5 t registered in Germany must be tested every 2 years (by TÜV, DEKRA); mobile homes over 3.5 t must be tested annually.

In Germany all vehicles must also undergo an exhaust gas test at the intervals shown in the table opposite. The test sticker on the front number plate will tell you when the next test is due (see also section 22.1 »Statutory Tests« page 22-1).



NOTE:

The relevant regulations which apply in other countries must be complied with!



Intervals for the Exhaust Gas Test (AU)

MAINTENANCE & INSPECTION



WEINSBERS

The onboard gas system must be tested by a gas engineer every 2 years (see also section 22.1 »Statutory Tests«, page 22-1).

The engineer must issue a gas test certificate certifying that the gas system has been tested. The gas test sticker will be found near the rear number plate.

19.3 Service Chart

Like any other machine, your mobile home needs to be properly serviced from time to time. The scope and frequency of this work will depend first and foremost on the conditions under which the vehicle is used and operated.

All servicing work requires specialist skills and knowledge. It is therefore essential for this work to be carried out by trained specialists.

The following table only lists the service and maintenance work that is carried out on the body of the mobile home.

Please refer to the separate FIAT manual for servicing of the FIAT base vehicle.

	rvicing action	How often
Handover inspection (see	warranty booklet)	On day of the handover
1. Check for leaks		After 12 - 14 months
2. Check for leaks		After 24 - 26 months
3. Check for leaks		After 36 - 38 months
4. Check for leaks		After 48 - 50 months
5. Check for leaks		After 60 - 62 months
Statutory inspection		See table on page 22-1
Gas inspection		Every 2 years
Check tyre pressures		Every 14 days
Lubricate support legs (op	otional accessory)	Every 6 months

Service Chart

Section 20



TROUBLESHOOTING AND FAULT RECTIFICATION

WEINSBERS



20. Troubleshooting and Fault Rectification

Troubleshooting should be carried out by reference to the following Troubleshooting table.

If you are unable to deal with malfunctions yourself you should contact the Customer Service department at your local *WEINSBERG* Service Centre or at the appliance manufacturer (heater = Truma, refrigerator = Electrolux, Thetford toilet = Thetford).



WARNING:

For your own safety's sake you are advised to have repairs to the base vehicle carried out by a qualified service centre, especially repairs and adjustments to the brake system!

GAS SYSTEM		
Fault	Cause	Action
Gas smell, excessive gas consumption.	Leak in gas system.	Decommission gas system immediately. Close gas bottle and gas taps stop valve open windows and doors and ventilate. Seek specialist advice and have the gas system checked. Do not operate electrical switches (e.g. ignition), naked flames and smoking are strictly forbidden!
No gas.	Tap for appliance is closed.	Open tap for appliance.
	Stop valve on gas bottle is closed.	Open gas bottle stop valve
No gas.	Outdoor temperature too low. Propane: -32 °C Butane: 0 °C	Wait for outside temperature to rise.
	Faulty appliance.	Call qualified engineer.



Fault	Cause	Action
Red »Fault« indicator on Trumatic control panel illuminates.	Lack of gas, shortage of combustion air, heavily soiled fan impeller, faulty fuse.	Turn off appliance and turn on again. After two failed attempts to ignite wait 10 minutes prior to switching on.
		Check that the gas bottle stop valve and appliance gas tap are open.
		Connect full gas bottle.
Red »Fault« indicator on Trumatic control panel flashes.	Operating voltage too low.	Charge backup battery with suitable charger or have charged, fit new battery, if necessary seek specialist advice.
	Operating voltage too high.	Call qualified engineer.
Green indicator behind rotary knob is on Trumatic control panel not illuminated.	Fuse in the electronic control unit has tripped	Call qualified engineer.
	Main switch switched off.	Switch on main switch.
		If these measures do not rectify the fault specialist advice must be sought from Truma service



TRUMATIC C		
Fault	Cause	Action
After switching on (winter and summer mode) no indicator illuminates.	Appliance or vehicle fuse faulty.	Check 12 VDC battery voltage. Check all electrical connectors. Check fuses and replace if necessary.
Red »Fault« indicator on Trumatic control panel flashes.	Operating voltage too low < 10.5 VDC.	Charge backup battery with suitable charger or have charged, fit new battery, if necessary seek specialist advice.
Approx. 30 seconds after switching on the heater, the red indicator illuminates continuously.	Check gas bottle stop valve or gas tap closed.	Check gas supply.
	Inadequate air supply.	Check chimney for any covers.
After switching on with 230-Volt operation no indicators illuminate.	No power supply.	Check 230-VAC supply and fuses.
After switching off the heater, the the electrical safety/drain valve opens.	Outdoor temperature below 4 °C.	Switch on heater. At temperatures around 4 °C and below the drain valve opens automatically.
Also after the heater is switched on, the valve remains open.	12-VDC power supply at the drain valve missing.	Check 12-VDC power supply and fuses.
The electrical safety/drain valve can no longer be closed.	Outdoor temperature below 8 °C.	Switch on heater. When the heater s not used, the drain valve can only be closed from temperatures above 8 °C.
Also after the heater is switched on, the valve remains open.	12-VDC power supply at the drain valve missing.	Check 12-VDC power supply and fuses.
Water drips from the electrical safety /drain valve.	Water pressure too high.	Check pump pressure (max. 2.8 bar). On connection to a central water supply (local supply) a pressure reducer must be used to prevent the pressures higher than 2.8 bar in the boiler. If these measures do not rectify the fault, specialist advice must be sought from Truma service



GAS COOKER		
Fault	Cause	Action
Ignition detectors fail to respond (Flame goes out on releasing the regulator).	Faulty ignition detector.	Call qualified engineer.
Flame goes out on »Low flame« setting.	Ignition detector sensor not correctly adjusted.	Adjust ignition detection sensor (do not bend!). The tip of the sensor should project above the burner by 5 mm. The sensor neck should be no more than 3 mm from the burner ring Call qualified engineer if necessary.



POWER SUPPLY		
Fault	Cause	Action
Backup battery does not charge when connected to 230-Volt mains. Charging indication on 230-Volt mains is provided	Automatic circuit breaker in wardrobe switched off.	Reset automatic circuit breaker.
by green indicator (item 6, <i>page 10-3</i>) on the Onboard Control.	2 A or 20 A fuse in the charger is faulty.	Replace fuse. If the fuse blows again, immediately seek specialist advice.
	Backup battery is flat.	Charge the backup battery. Start the engine and run for about 1 minute Backup battery voltage rises more than 2 V and charging process is started. If it is not possible to charge the backup battery replace battery, if necessary seek specialist advice.
Backup battery does not charge during the journey. Charging indication is provided green indicator (item 5,	40 A fuse on fuse distribution panel Starter battery faulty.	Replace fuse.
page 10-3) on Onboard Control.	Relay or electronics in distribution box faulty.	Call qualified engineer.
12 Volt appliances (lights and socket) do not work.	Main switch (item 9, <i>page 10-3</i>) on Onboard Control.	Switch on main switch.
	Fuse in distribution box faulty.	Replace fuse.
	Main fuse on backup battery faulty.	Replace fuse.
	Relay or electronics in distribution box/ Faulty Onboard Control.	Call qualified engineer.
Water pump does not work.	Main switch (item 9, <i>page 10-3</i>) or water pump switch (item 10, <i>page 10-3</i>) on Onboard Control switched off.	Switch on related switch.
	Fuse in distribution box faulty.	Replace fuse.
	Faulty water pump.	Replace water pump.
	Electronics in distribution box/ Onboard Control faulty.	Call qualified engineer.
	Water tap switch faulty.	Replace water tap.



Fault	Cause	Action
Wastewater tank heating or wastewater pipe (optional extra) does not work.	Main switch (item 9, page 10-3) or Heating element switch (item 8, page 10-3) on Onboard Control switched off.	Switch on related switch.
	Fuse in distribution box faulty.	Replace fuse.
	Heating element or heating strip faulty.	Have faulty part renewed by a qualified engineer.
	Electronics in distribution box/ Onboard Control faulty.	Call qualified engineer.
FW tank display (item 3, <i>page 10-3</i>) does not work.	Connection between Onboard Control and Probe faulty.	Identify fault and correct.
	Faulty Onboard Control.	Have Onboard Control replaced by a qualified engineer.
Wastewater tank display (item 4, page 10-3) does not work.	Connection between Onboard Control and Probe faulty.	Identify fault and correct.
	Faulty Onboard Control.	Have Onboard Control replaced by a qualified engineer.
	Probe heavily soiled.	Clean probe.

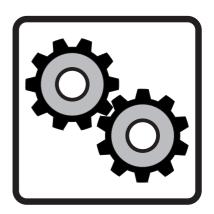


WATER SUPPLY		
Fault	Cause	Action
No fresh water.	Fresh water tank empty.	Fill fresh water tank.
	Fuse in distribution box faulty.	Replace faulty fuse, or insert.
	Faulty water pump.	Have water pump replaced by your local <i>WEINSBERG</i> service centre.
	Pinched water hose.	Remove kink from water hose and/or replace.
	Faulty electric terminal block.	Call qualified engineer.
Water leaking in mobile home.	Leak in water system.	Locate the leak, re-clamp supply hoses.



Fault	Cause	Action
Refrigerator does not switch on with 12-Volt operation.	Fuse for refrigerator in distribution box faulty.	Fit new fuse.
	Battery flat.	Charge battery. Always ensure the battery is charged.

Section 21



SPECIFICATIONS



- 21. Specifications
- **21.1** Tyres
- **21.1.1** General Notes on the Tyres



WARNING:

Damaged tyres are a hazard and must be attended to immediately!



NOTE:

Always check tyre pressures with cold tyres.

- ▶ All 4 tyres on your mobile home should be inflated to the same pressure. The recommended tyre pressure is shown in the tyre pressure table on the next page.
- ▶ Tyres may deflate in the areas in contact with the ground over long stationary periods when tyre pressures are too low or tyres can gradually deflate. You should therefore inflate the tyres to 0.3 bar above the pressures shown in the table if your mobile home is going to be out of use for any length of time.
- ► Inadequate tyre pressure can cause tyres to heat up excessively and damage them internally. At high speeds this can cause the tread to separate from the tyre and can even lead to a tyre bursting!
- ► Subsequently correcting the tyre pressure will not cure hidden tyre damage.
- ► Kerbs should only be negotiated slowly and at right angles where possible. Avoid driving over steep and sharp-edged kerbs. Hidden tyre damage can be caused if you drive over kerbs or sharp objects such as stones violently or at too narrow an angle. This damage will have a 'delayed action'! An accident may be caused by a tyre bursting at high speed!
- ▶ Regularly check your tyres for damage, e.g. sharp objects sticking in the tyre, holes, cuts, cracks and blisters in the tyre wall. An object lodged in the tyre can also damage the tyre's interior. Damage should always be examined by a qualified person to see whether it can be repaired. A damaged tyre must be replaced if it cannot be repaired or if a successful repair is in doubt! A damaged tyre can burst!
- Never use tyres if you do not know their 'history'. All tyres age even if they are little used or not used at all. We recommend that you replace the tyres on your mobile home when they are 6 years old don't forget the spare wheel! Even the spare wheel should only be used in emergencies after 6 years and driven on with extreme caution!
- ▶ The tread depth must be checked at regular intervals. The more worn the tread the greater the risk of aquaplaning.







NOTE:

The minimum statutory depth of tread in the related country must be complied with!

► Check tyre pressures (including spare wheel!) before every journey and adjust as necessary. If you cannot avoid driving with low tyre pressure, you should not exceed a maximum speed of 20 km/h.

21.1.2 Tyre Pressure Table

These tyre pressures apply to tyres when cold and for a fully laden mobile home.

Version	Tyre type	Tyre size	Tyre pressure [bar]		
			Front	Rear	
10/11	All types	195/70 R15 (104/102) R	4.0	4.0	
10/11	All types	205/70 R15 (106/104) R	4.0	4.0	
10/11	All types with »Michelin Camping« tyres	215/70 R15 (109/107) Q	5.0	5.0	
14/15	All types	205/70 R15 (106/104) R	4.1	4.5	
14/15	All types with »Michelin Camping« tyres	215/70 R15 (109/107) Q	5.0	5.0	
MAXI	All types	205/75 R16 (110/108) Q	4.5	4.5 *	
MAXI	All types	215/75 R16 (113/111) Q	4.5	4.5	
MAXI	All types with »Michelin Camping« tyres	215/75 R16 (113/111) Q	5.5	5.5	

Tyre Pressure Table

^{* 4.75} bar when using the vehicle with more than 2.000 kg rear axle load



NOTE:

When tyres are hot the tyre pressure should be 0.3 bar higher than specified.



CAUTION:

The correct tyre is however to be controlled again when the tyres are cold.



21.2 Payload

21.2.1 Weights for WEINSBERG Accessories

Weights for *WEINSBERG* accessories are listed adjacent. If used, tick the appropriate items (>>> \square) and enter their weights in the enclosed form unless they are already included in the weight of your mobile home. All weights given are *approximate*.

65 litre refrigerator (compressor)
Air conditioning for driving cab
Air Lift, extra rear axle springing
Air Lift, extra spring Pneuma Lift (1 set)
Air recirculation system 12 VDC 1.2 kg >>>
AL-KO HYF58A trailer hitch
Antenna packet SAMY SAT
Awning 300 x 250 cm
Awning light
Blaupunkt radio cassette
Carpeting in cab
Coil springs
Cycle carrier for 2 bicycles (rear mounting)
Cycle carrier for 3 bicycles (rear mounting)
Duomatic
Duomatic with remote display
Ducato alloy wheel 6 1/2 x 16
Ducato 7 x 15 alloy wheel. 0.0 kg >>> \square
Electric external rear view mirror
Engine heat exchanger for hot water heater
Fiat driver's airbag. 2.5 kg >>> \square
Fog lamp, base vehicle 2.0 kg >>> \square
Front mud flaps



WEINSBERS

Laserline alarm	5 kg >>>
Omnivent 12 VDC roof fan. 5.0 Onboard battery charger, automatic 250 W 1.8) kg >>>
Onboard gel battery 80 Ah) kg >>>
Pilot seats coordinated to body finish (2 off) 7.4 Power awning drive 2.5	-
Radio preparation 2.0 REMI top II 600 x 600 mm 8.8 Roof hood with 12 V fan 4.5	8 kg >>> □
SAT (Astra) aerial package, manual 9.0 Solar power system, 120 W 15.0	_
Travel-Pilot navigation system (Blaupunkt) 2.0 TV support extension 2.0	6 kg >>>
Video reversing system	kg >>> 🗖
Total weight of the WEINSBERG accessories carried	□□.□kg



NOTE:

On the following pages you can make a note of the weight personal equipment and add up the weight.

WEINSBERS



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21-5



WEINSBERS

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: kg
Total weights of the Personal Equipment: kg

WEINSBERG



21.2.2 **Explanations on the Payload Calculation**



CAUTION:

- The maximum technically permissible laden mass of the mobile home as shown in the vehicle documents must not be exceeded when the total mass of the payload is added to the mass of the vehicle in running order!
- An excessive payload will have an adverse effect on the handling of your mobile home. You may lose control of the vehicle as a result!
- The mobile home should be loaded as described in Section 4.3.1, page 4-3.
- Grant Once you have loaded up your mobile home, have it weighed on a public weighbridge before you set out on your journey.
- If the actual total mass of your mobile home exceeds the maximum technically permissible laden mass then you will lose your warranty claims against the manufacturer and your insurance cover will be void!

The payload is the difference between the maximum technically permissible laden mass and the mass is running order

EEC Directive 92/21/EEC governs the payload of mobile homes at European level. The regulations in the Directive broadly correspond with DIN EN 1646-2 and DIN EN 1645-2.

21.2.2.1 Mass in Running Order

The mass in running order is the weight of the **unladen vehicle** (including lubricants, toolkit, spare wheel, 90 % full fuel tank), with factory-fitted standard equipment, plus the weight of the driver (75 kg) and the basic equipment (see section 21.2.2.2).

21.2.2.2 Basic Equipment

Cosmos

The basic equipment comprises all items of equipment and fluids that are necessary for the safe and proper use of the mobile home. It includes the weights of:

→ Gas: Liquid gas bottles (up to 90% full) **→** Water: Fresh water heater (100% full) Fresh water tank (90% full)





21.2.2.3 Maximum Technically Permissible Laden Mass

This mass allows for specific operating conditions including factors such as material strength, load capacity of the tyres etc. **This mass must not be exceeded under any circumstances!**



NOTE:

You will find the maximum technically permissible laden mass, the mass in running order and the payload in the specifications on *page 21-10* and *21-12*.

21.2.3 Weights of the Payload

21.2.3.1 Weights of the Accessories

The accessories cover the weights of all objects that are available beyond the standard equipment. You will find the individual weights in the list on *pages 21-3* and *21-4*, these are to be totalled at the end of the list.

21.2.3.2 Weights of the Personal Equipment

Personal equipment comprises the weights of all articles carried on the vehicle over and above the optional extras, such as:

- ▶ Persons carried (except driver)
- ▶ Pets
- ➡ Clothing and shoes
- **▶** Sanitary articles, toilet articles
- **▶** Kitchen articles, etc.
- **▶** Food
- **▶** Sports and leisure articles
- TV, radio, VCR etc.
- **▶** Toys

The individual weights for the personal equipment carried must be accurately determined and recorded in full in the list on *pages 21-5* and *21-6* and totalled.



21.2.4 Formula for the Payload Calculation

The payload is calculated as using the following formula:

Maximum technically permissible laden mass

- Mass in running order
Payload

3,300.00 kg

- 2,495.00 kg

805.00 kg



NOTE:

The payload, i.e. accessories + personal equipment must not exceed a weight of 805.00 kg in this example!



NOTE:

- The particulars given in the vehicle document are binding for the specifications.
- You will find further information on the base vehicle in the separate user manual supplied by the manufacturer.
- Other specifications are not part of this manual. These figures are enclosed with the mobile home as a separate manual.





21.3 Specifications and Floor Plan with Heating Diagram

Cosmos 551 K			Cosmos 551 K				
Chassis / engine 15	/ 2.3 JTD	Gas pressure [mbar]	30	Chassis / engine 1.	5 / 2.8 JTD	Gas pressure [mbar]	30
		Water pressure [bar]	1.8			Water pressure [bar]	1.8
Max. technically permissible	9			Max. technically permissib	ole		
laden mass [kg]	3,300	Capacity [litres]		laden mass [kg]	3,300	Capacity [litres]	
Mass in running order [kg] ¹	2,495	Fresh water tank	48	Mass in running order [kg] 2 2,520	Fresh water tank	48
Payload [kg]	805	Wastewater tank	80	Payload [kg]	780	Wastewater tank	80
		Hot water boiler	12.5			Hot water boiler	12.5
		Thetford toilet	17			Thetford toilet	17
Total width [mm]	2,024			Total width [mm]	2,024		
Total height [mm]	2,550	Battery capacity, backup batter	y [Ah]	Total height [mm]	2,550	Battery capacity, backup batt	tery [Ah]
Total length [mm]	5,599	Wet battery	80	Total length [mm]	5,599	Wet battery	80
Internal height [mm]	1,850			Internal height [mm]	1,850		
		Number of gas bottles [kg]	2 x 5			Number of gas bottles [kg]	2 x 5
Max. front axle load [kg]	1,750			Max. front axle load [kg]	1,750		
Max. rear axle load [kg]	1,850	Seats with seat belts	2	Max. rear axle load [kg]	1,850	Seats with seat belts	2
Max. towing load [kg]	2,000	Admissible no. of persons in		Max. towing load [kg]	2,000	Admissible no. of persons in	n
		vehicle while travelling	3			vehicle while travelling	3
Turning circle [mm]	13,700			Turning circle [mm]	13,700		
		Beds [mm]				Beds [mm]	
Tyre size 205/	70-R15 C	Rear bed 1,800/1,880	x 1,800	Tyre size 205	5/70-R15 C	Rear bed 1,800/1,88	30 x 1,800
Wheel size	15"-6Ј-Н			Wheel size	15"-6Ј-Н		
		Figures are not binding!				Figures are not binding!	

 $^{^{\}scriptscriptstyle 1}$ Mass in running order = Fiat Ducato Hbox van 2.3 JTD + driver+ basic equipment

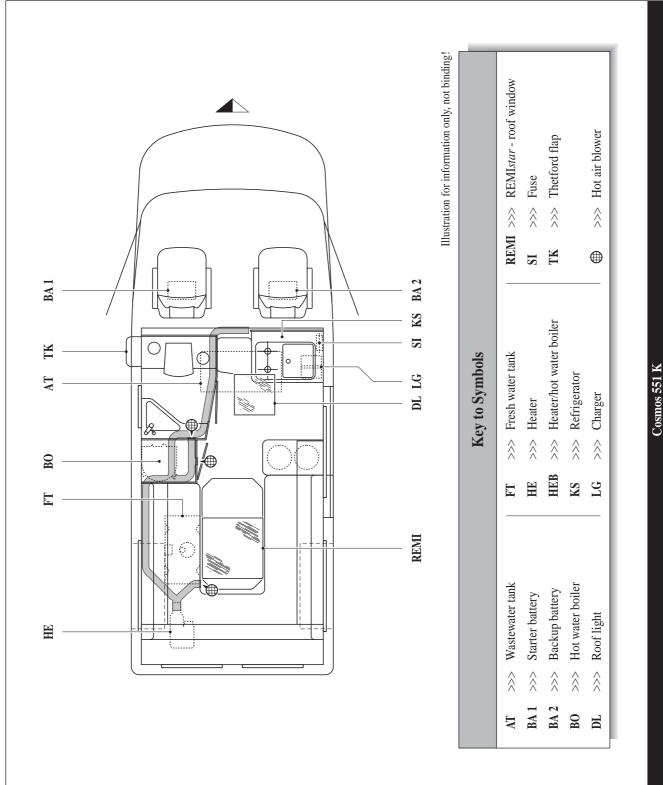


NOTE:

Masses and weights can vary within \pm 5 % owing to the use of natural materials!

² Mass in running order = Fiat Ducato Hbox van 2.8 JTD + driver+ basic equipment











Cosmos 551 MQ			Cosmos 551 MQ				
Chassis / engine 15	5 / 2.3 JTD	Gas pressure [mbar]	30	Chassis / engine 15	/ 2.8 JTD	Gas pressure [mbar]	30
		Water pressure [bar]	1.8			Water pressure [bar]	1.8
Max. technically permissib	le			Max. technically permissible)		
laden mass [kg]	3,300	Capacity [litres]		laden mass [kg]	3,300	Capacity [litres]	
Mass in running order [kg]	1 2,613	Fresh water tank	85	Mass in running order [kg] ²	2,638	Fresh water tank	85
Payload [kg]	687	Wastewater tank	80	Payload [kg]	662	Wastewater tank	80
		Hot water boiler	12.5			Hot water boiler	12.5
Total width [mm]	2,024	Thetford toilet	17	Total width [mm]	2,024	Thetford toilet	17
Total height [mm]	2,550			Total height [mm]	2,550		
Total length [mm]	5,599	Battery capacity, backup batte	ry [Ah]	Total length [mm]	5,599	Battery capacity, backup bat	tery [Ah]
Internal height [mm]	1,850	Wet battery	80	Internal height [mm]	1,850	Wet battery	80
Max. front axle load [kg]	1,750	Number of gas bottles [kg]	2 x 11	Max. front axle load [kg]	1,750	Number of gas bottles [kg]	2 x 11
Max. rear axle load [kg]	1,850			Max. rear axle load [kg]	1,850		
Max. towing load [kg]	2,000	Seats with seat belts	4	Max. towing load [kg]	2,000	Seats with seat belts	4
		Admissible no. of persons in				Admissible no. of persons i	n
Turning circle [mm]	13,700	vehicle while travelling	4	Turning circle [mm]	13,700	vehicle while travelling	4
Tyre size 205	/70-R15 C	Beds [mm]		Tyre size 205/	70-R15 C	Beds [mm]	
Wheel size	15"-6Ј-Н	Rear bed 1,900 x 1,35	50/1,150	Wheel size	15"-6Ј-Н	Rear bed 1,900 x 1,	350/1,150
		Side bed 1,750 x	850/550			Side bed 1,750	x 850/550
		Figures are not binding!				Figures are not binding!	

¹ Mass in running order = Fiat Ducato Hbox van 2.3 JTD + driver+ basic equipment

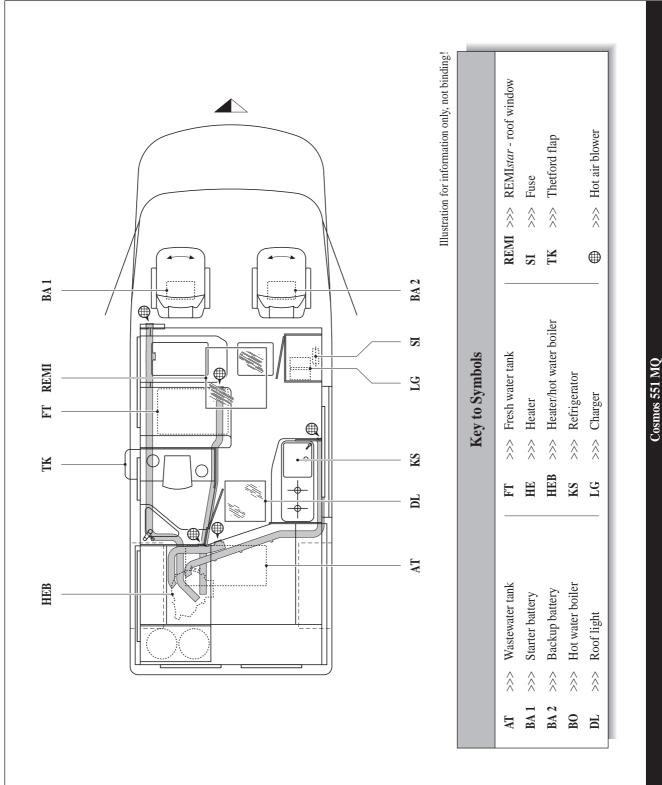


NOTE:

Masses and weights can vary within \pm 5 % owing to the use of natural materials!

² Mass in running order = Fiat Ducato Hbox van 2.8 JTD + driver+ basic equipment





Section 22



Information & Tips



22. Information & Tips



NOTE:

- All information on this page relates only to Germany.
- For journeys abroad the regulations in the specific country are to be observed!

22.1 Statutory Tests

D	Mobile home up to 2.8 tonnes	Mobile home 2.8 - 3.5 tonnes	Mobile home over 3.5 tonnes
TÜV/DEKRA	2 years	2 years	1 year
EXHAUST GAS TEST (AU)	2 years	2 years	1 year
INSPECTION OF THE LPG SYSTEM BY GAS ENGINEER	2 years	2 years	2 years

22.2 Accessories to be Carried on the Vehicle in Case of Emergency

D	Mobile home	Mobile home	Mobile home
	up to 2.8 tonnes	2.8 - 3.5 tonnes	over 3.5 tonnes
YOU MUST CARRY IN YOUR MOBILE HOME FOR EMERGENCIES	First-aid kit Hazard warning triangle	First-aid kit Hazard warning triangle	First-aid kit Hazard warning triangle Hazard warning lamps

Information & Tips



WEINSBERS

22.3 Emergency Telephone Numbers

Country German embassy	Country code	Rescue <i>Police</i>	ADAC or partner club emergency number Breakdown assistance	Legal alcohol limit	Tolls
Belgium (02) 7 74 19 11	00 32	1 00 <i>1 01</i>	TCB BrusselsI, (02) 2 33 22 11 0 70 34 47 77	0.5 ‰	none
Bulgaria (02) 91 83 80	0 03 59	1 50 <i>1 60</i>	ADAC Munich, 00 49 (89) 22 22 22 (02) 9 11 46	-	-
Denmark 35 45 99 00	00 45	1 12 <i>1 12</i>	ADAC Vejle, 79 42 42 85 79 42 42 85 ⁴⁾ / 79 42 42 42 ⁵⁾	0.5 ‰	Bridges Gr. Belt / Öresund
Germany -	00 49	1 12 <i>1 10</i>	ADAC Munich, 00 49 (89) 22 22 22 22 22 22 22 22	0.5 ‰	none
Finland (09) 45 85 80	0 03 58	1 12 <i>1 12</i>	ADAC Munich, 00 49 (89) 22 22 22 (09) 77 47 64 00, 02 00 80 80 ¹⁾	0.5 ‰	none
France (01) 53 83 45 00	00 33	15 <i>17</i>	ADAC Lyon, (04) 72 17 12 22 ADAC Lyon, (04) 72 17 12 22	0.5 ‰	Tolls on motorways
Greece 21 07 28 51 11	00 30	1 66 * / 1 51 ** 1 00	ADAC Athens, 21 09 60 12 66 104	0.5 ‰	Tolls on motorways
UK (01) 53 83 45 00	00 44	9 99 / 1 12 9 99 / 1 12	AA London, (0 87 05) 44 88 66 0 80 00 28 90 18, 08 00 82 82 82; Mobile: (0 16 22) 76 23 42	0.8 ‰	none
Ireland (01) 2 69 30 11	0 03 53	9 99 / 1 12 9 99 / 1 12	AA Dublin, (01) 6 17 99 99 Dublin, 18 00 66 77 88	0.8 ‰	none
Italy (06) 49 21 31	00 39	1 18 <i>1 12</i>	ADAC Milan, (02) 66 15 91 80 31 16, 8 00 11 68 00	0.5 ‰	Tolls on motorways
Croatia (01) 6 15 81 05	0 03 85	94 <i>92</i>	ADAC Zagreb, (01) 3 44 06 66 9 87; Mobile:: 0 19 87	0.5 ‰	Tolls on motorways
Luxemburg (0 03 52) 4 53 44 51	0 03 52	1 12 <i>1 13</i>	ACL Luxemburg, (0 03 52) 4 50 04 51 4 50 04 51	0.8 ‰	none
Macedonia (01) 6 15 81 05	0 03 89	94 <i>92</i>	ADAC Belgrade, 0 03 81(11) 3 42 27 07 (02) 9 87	-	-
Netherlandes (0 70) 3 42 06 00	00 31	1 12 <i>1 12</i>	ANWB The Hague, (05 92) 39 05 60 08 00 08 88; Mobile: (05 92) 39 05 06	0.5 ‰	none
Norway 23 27 54 00	00 47	1 13 <i>1 12</i>	ADAC Munich, 00 49 (89) 22 22 22 81 00 05 05	0.2 ‰	For some bridges/tunnels
Austria (01) 7 11 54	00 43	1 44 1 33	ADAC Vienna, (01) 2 51 20 60 1 20 (for fixed and mobile phone network)	0.5 ‰	Motorway Vignette from euro 7.60
Poland (0 22) 6 17 30 11	00 48	9 99 <i>9 97</i>	ADAC Posen, (0 61) 8 31 98 88 96 37, (0 22) 8 25 97 34	0.2 ‰	for Kattowitz-Krakau motorway
Portugal (21) 8 81 02 10	00 35 16	1 12 1 12	ADAC Barcelona, 00 34 (93) 5 08 28 28 <i>Algarve: 2 19 42 91 03</i> ²⁾ , <i>Other: 2 28 34 00 01</i> ³⁾	0.5 ‰	Tolls on motorways
Rumania (01) 2 30 25 80	00 40	9 61 <i>9 55</i>	ADAC Bucharest, (21) 2 23 45 25 Bucharest, 2 23 46 90 oder 92 71	-	-
Russia (0 95) 9 37 95 00	0 07	03 <i>02</i>	ADAC Munich, 00 49 (89) 22 22 22	-	-
Sweden (08) 6 70 15 00	00 46	1 12 1 12	ADAC Munich, 00 49 (89) 22 22 22 0 20 91 29 12, 0 87 67 90 00	0.2 ‰	Öresund tunnel/bridge



Country German embassy	Country code	Rescue <i>Police</i>	ADAC or partner club emergency number Breakdown assistance	Legal alcohol limit	Tolls
Switzerland (0 31) 3 59 41 11	00 41	1 44 <i>1 17</i>	ADAC Munich, 00 49 (89) 22 22 22 1 40; Mobile: 03 18 50 53 11	0.5 ‰	Motorway Vignette SFr. 40
Serbia-Montenegro (0 11) 3 61 42 55	0 03 81	94 <i>92</i>	ADAC Belgrade, (0 11) 42 27 07 9 87; Mobile: 01 19 87	_	-
Slovak Republic (02) 59 20 44 00	0 04 21	1 55 <i>1 58</i>	ADAC Prague, 00 42 (02) 61 10 43 51 1 81 24	0.0 ‰	Motorway Vignette from Kr. 100
Slovenia 23 27 54 00	0 03 86	1 12 <i>1 13</i>	ADAC Zagreb, 0 03 85 (1) 3 44 06 50 19 87	0.5 ‰	Tolls on motorways
Spain (01) 7 11 54	0 03 45	0 61 <i>1 12</i>	ADAC Barcelona, 9 35 08 28 28 9 15 93 33 33	0.5 ‰	Tolls on motorways
Czech Republic 2 57 11 31 11	0 04 20	1 55 <i>1 58</i>	ADAC Prague, 2 61 10 43 51 (02) 12 30	0.0 ‰	Motorway Vignette from Kr. 100
Turkey (03 12) 4 55 51 00	00 90	1 12 <i>1 55</i>	ADAC Istanbul, (02 12) 2 88 71 90 via ADAC Istanbul, (02 12) 2 88 71 90	0.5 ‰	Tolls on motorways
Hungary (01) 4 88 35 00	00 36	1 04 <i>1 07</i>	ADAC Budapest, (0 61) 3 45 17 17 1 88; Mobile: (0 61) 3 45 17 44	0.0 ‰	Motorway Vignette from For. 1,000
USA -	0 01	9 11 <i>9 11</i>	ADAC emergency call centre Florida: 1-888-222-13 73	-	-
Cyprus -	0 03 57	1 19/1 12 <i>1 19/1 12</i>	0 03 01 960 12 66 -	_	-

¹ = Tourist police

² = Number only valid for Athens, Thessaloniki, Kavala, Patras, Ioannina and Larissa

³ = Number valid outside large cities

 4 = For all calls (also from abroad) always dial the dialling code with the 0

 5 = For all calls (also from abroad) always dial the code 9

 6 = For all calls (also from abroad) always dial the code 2

From all countries without ADAC emergency call centres, the 24-hour service in the ADAC headquarters in Munich can be contacted on the following telephone numbers:

+49 (89) 22 22 22 or 76 76 76

Status: 05/2003

Information not guaranteed

Section 23



CHECKLIST





23. Checklist

Commen	ts:	Date:		
1:	Do you have all vehicle papers – including the green card – onboard, and do all passengers have their travel do card, child's identity card, etc.)? Check validity of travel documents in good time!	ocuments (passport, identity	OK:	
2:	Do you have all necessary documents (heath related documentation and vaccination certificate) for any pets of necessary documents can be obtained from the related consulate, from the tourist office or from an automobile club	carried? Information on the	OK:	
3:	Is the gas test certificate still valid (see gas test sticker)? Check validity in good time!		OK:	
4:	Do you have a complete set of spare keys (store separately!) for the mobile home and any alarm?		OK:	
5:	Have all the necessary servicing work and inspections been performed on the mobile home at the correct intervals?	?	OK:	
6:	Are you sure that the maximum technically permissible laden mass has not been exceeded (see Specifications, page	e 21-10 and 21-12)?	OK:	
7:	Has your mobile home been correctly loaded (see section 4.3, <i>page 4-2</i>)?		OK:	
8:	Are all doors, flaps, gas locker, windows, roof lights and REMI – except forced air vents – correctly closed?		OK:	
9:	Have the suspended light(s) been taken down and safely stowed?		OK:	
10:	Are all tables placed in the sleeping position (see <i>page 7-10</i> and <i>7-11</i>)?		OK:	
11:	Are you sure that all containers with liquids - including those in the refrigerator - cannot tip over?		OK:	
12:	Are the gas bottles securely fastened in the gas locker with the fastening straps, are the gas bottle stop valve and ga	as taps closed?	OK:	
13:	Is the payload securely fastened against sliding?		OK:	
14:	Have all the tyre pressures (including the spare tyre) on the mobile home been checked as per the Tyre Pressure T	Table, page 21-2 ?	OK:	
15:	Are first-aid kit (check for completeness!) and hazard warning triangle stowed where they are easy to reach?		OK:	
16:	Do you have a correctly pumped up spare wheel, the corresponding tools and a suitable vehicle jack for the maxir laden mass in case you need to change a wheel?	num technically permissible	OK:	
17:	Do all lights work on the mobile home (test!)?		OK:	

Copy if necessary

CHECKLIST



WEINSBERS

23.1 Checklist for Personal Entries

Comments:	Date:
:	OK: 🗆
:	ОК: 🗆
:	OK: □
:	OK:
:	ОК: 🗆
:	OK: □
•	ОК: 🗆
•	ОК: 🗆

Copy if necessary

Section 24



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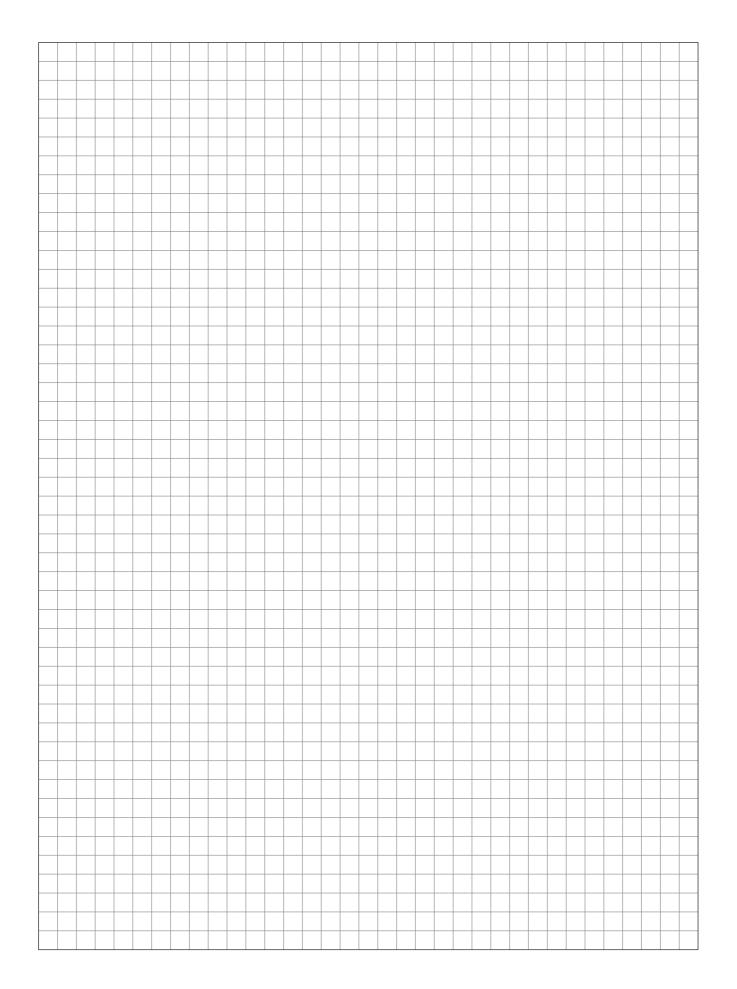
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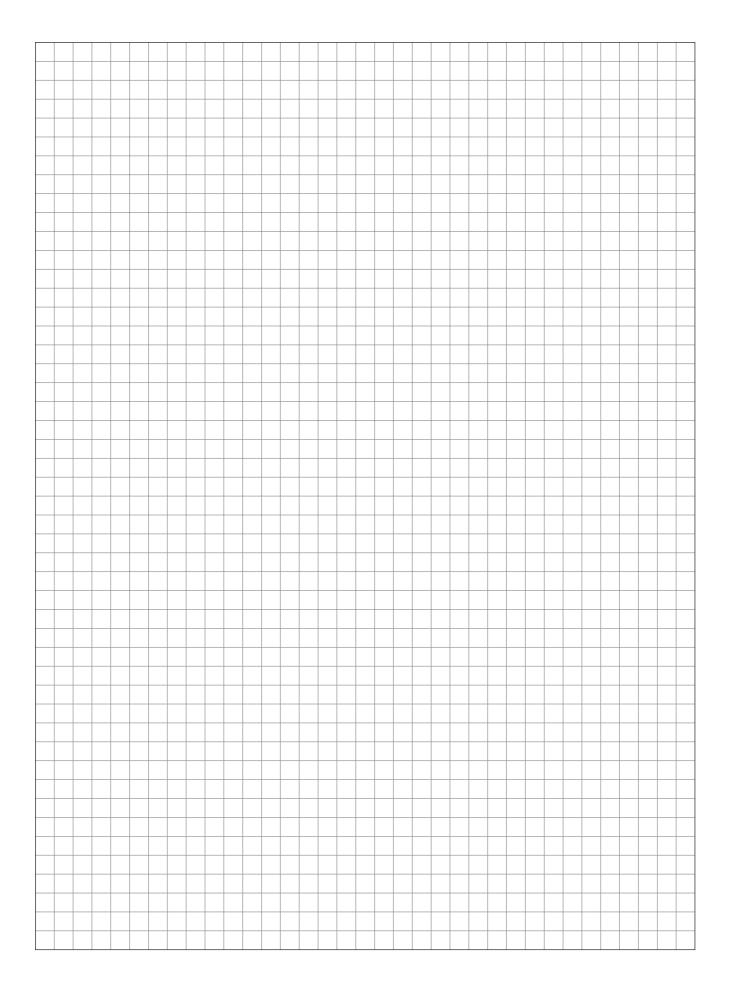
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